



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

November 22, 2019

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103

RE: **EM-VER-118-191115** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 76 East Ridge Road, Ridgefield, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 21, 2019 submitted in response to the Council's November 19, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/IN/emr



Robidoux, Evan

From: Nwankwo, Ifeanyi
Sent: Thursday, November 21, 2019 11:29 AM
To: Cunliffe, Fred
Cc: Fontaine, Lisa; Robidoux, Evan
Subject: FW: EM-VER-118-191115 - 76 East Ridge Road, Ridgefield, CT - Additional Information
Attachments: Ridgefield_001.pdf

Hi Fred

The incomplete request for this EM was for Verizon to provide the MA referenced in the CD.
The attached response appears to satisfy the incomplete request pending receipt of hard copies.

Please advise for acknowledgment pending the receipt of hard copies.
Thanks.

Best Regards

Ifeanyichukwu Nwankwo
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
P: 860.827.2941 | F: 860.827.2950 | E: Ifeanyi.Nwankwo@ct.gov



www.ct.gov/csc

*Conserving, improving and protecting our natural resources and environment;
Ensuring a clean, affordable, reliable, and sustainable energy supply.*

From: Robidoux, Evan
Sent: Thursday, November 21, 2019 11:22 AM
To: Nwankwo, Ifeanyi; Cunliffe, Fred
Cc: Fontaine, Lisa
Subject: FW: EM-VER-118-191115 - 76 East Ridge Road, Ridgefield, CT - Additional Information

Please review for completion. Thanks!

Sincerely,

Evan Robidoux

Clerk Typist
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

From: Dandeneau, Kathleen [<mailto:KDANDENEAU@RC.com>]
Sent: Thursday, November 21, 2019 11:02 AM
To: Bachman, Melanie <Melanie.Bachman@ct.gov>; CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: Baldwin, Kenneth <KBALDWIN@RC.com>; Mayo, Rachel <rmayo@RC.com>
Subject: EM-VER-118-191115 - 76 East Ridge Road, Ridgefield, CT - Additional Information

The original is being hand delivered to the Siting Council.

Kathleen M. Dandeneau
Legal Administrative Assistant

Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103
Direct 860.541.2689 | Fax 860.275.8299
kdandeneau@rc.com | www.rc.com

Robinson+Cole

Boston | Hartford | New York | Providence | Miami | Stamford
Los Angeles | Wilmington | Philadelphia | Albany | New London

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KENNETH C. BALDWIN

280 Trumbull Street
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Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

November 21, 2019

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

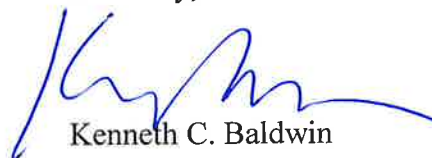
Re: **EM-VER-118-191115 – Cellco Partnership d/b/a Verizon Wireless Notice of Intent to Modify an Existing Telecommunications Facility Located at 76 East Ridge Road, Ridgefield Connecticut**

Dear Attorney Bachman:

In response to your November 19, 2019 letter regarding the above-referenced notice of exempt modification filing, attached is a copy of the Mount Analysis referenced on the Infinigy construction drawings.

If you have any questions or need any additional information please do not hesitate to contact me.

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Enclosure

20061433-v1

INFINIGY

FROM ZERO TO INFINIGY
the solutions are endless

1033 WATERLIET SHAKER RD, ALBANY, NY 12205

Mount Analysis Report

September 23, 2019

Verizon Site Name	RIDGEFIELD CT
Verizon Site Number	468697
Client	Verizon
Carrier	Verizon
Infinigy Job Number	1126-D0001-B
Site Location	76 East Ridge Ave. Ridgefield, CT 6877 41.280917 N NAD83 73.492889 W NAD83
Mount Type	Platform
Mount Centerline E.L.	128.0 ft
Mount Usage	66.6%
Overall Result	Contingent Pass
Note	Install SitePro1 PRK-1245L and attach 36" below current mount collar. Add a 2.375" O.D. 8ft long per sector for Samsung XXDWMM-12.5-65-8T-CBRS antennas.

Upon reviewing the results of this analysis, it is our opinion that the proposed mount meets the specified TIA code requirements. The proposed mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.



David Schwenker
Project Engineer I

AZ CA CO FL GA MD NC NH NJ NY TX WA

INFINIGY

Mount Analysis Report
September 23, 2019

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Mount Analysis Report

September 23, 2019

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the existing Verizon mounts. All supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.0.2 analysis software.

Supporting Documentation

RFDS	Verizon RFDS ID #106361, dated September 5, 2019
Previous Analysis	Infinigy Engineering Job #1080-Z0001-B, dated March 21, 2019
Mapping Report	Infinigy Mapping ETS# 184924, dated November 28, 2018

Analysis Code Requirements

Wind Speed	93 mph (3-Second Gust, V_{ASD}) / 120 mph (3-Second Gust, V_{ULT})
Wind Speed w/ ice	50 mph (3-Second Gust, V_{ASD}) w/ 0.75" ice
TIA Revision	ANSI/TIA-222-G
Adopted IBC	2015 IBC/ 2018 Connecticut Building Code
Structure Class	II
Exposure Category	B
Topographic Category	1
Calculated Crest Height	0 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the proposed mount meets the specified TIA code requirements. The proposed mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

David Schwenker
Project Engineer I | INFINIGY
1490 W 121st Ave, Suite 101, Westminster, CO 80234
(O) (303) 219-1178
dschwenker@infinigy.com | www.infinigy.com

Mount Analysis Report

September 23, 2019

Final Configuration Loading

Mount CL (ft)	Rad. HT (ft)	Horiz. O/S (ft) ⁽¹⁾	Qty	Appurtenance ⁽²⁾	Carrier
128.0	128.0	0.0	2	Commscope SBNHH-1D65B	Verizon
		3.0	4	Commscope SBNHH-1D85B	
		7.0	3	Antel BXA-80080/4CF FP	
		11.0	3	Amphenol QUAD 656 C0000X	
		3.0	3	Samsung RRH-BR049 B2/66A	
		5.5	3	Samsung RRH-BR04C B5/B13	
		8.0	3	Commscope CBC78T-DS-43-2X	
		13.3	3	Samsung XXDWMM-12.5-65-8T-CBRS	
		13.3	3	Samsung CBRS RRH-RT4401-48A	

(1) Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower.

(2) Radios are mounted behind antennas at respective locations see appended documents for vertical locations.

Structure Usages

Mount Pipe	34.6%	Pass
Standoff	33.9%	Pass
Horizontal	39.5%	Pass
Hand Rail	66.6%	Pass
Corner Plates	34.4%	Pass
RATING =	66.6%	Pass

Mount Connection Reactions

Reaction Data	Design Reactions	Analysis Reactions	Result
Tension (kips)	12.154	4.639	38.2%
Shear (kips)	7.246	3.933	54.3%
Unity Check	--	--	44.0%

*Assumed (2) 5/8" A307 Bolts. Contractor to field to verify anchor diameters prior to proper installation.

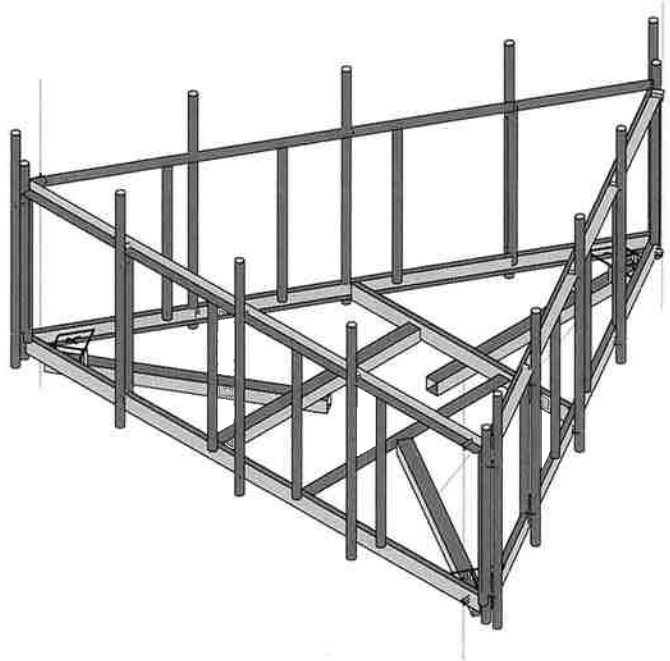
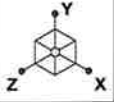
- Mount Connection reactions are acceptable per code calculate capacity.

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



Infinigy Engineering

DWS

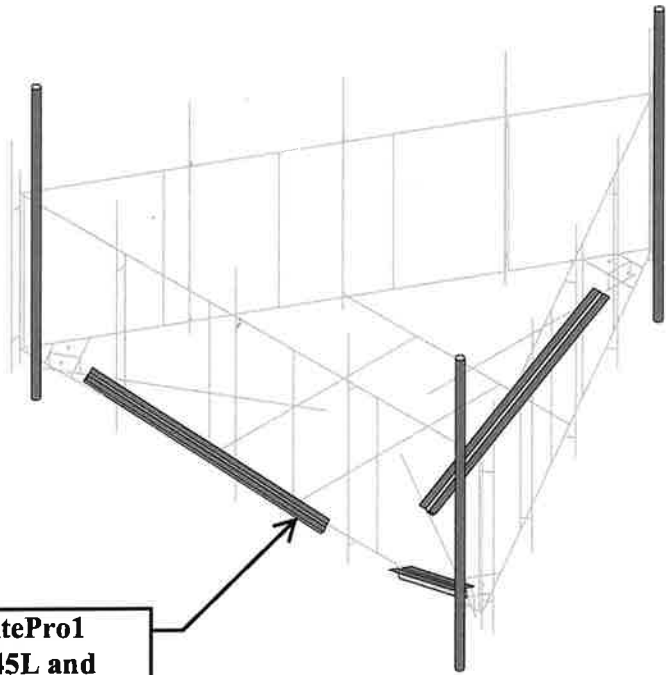
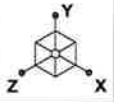
1126-D0001-B

CT11103A Ridgefield

Existing Configuration

Sept 17, 2019 at 1:42 PM

Proposed_Ridgefield.r3d



Add a 2.375" O.D.
8ft long per sector

Install SitePro1
PRK-1245L and
attach 36" below
current mount
collar.

Infinigy Engineering

DWS

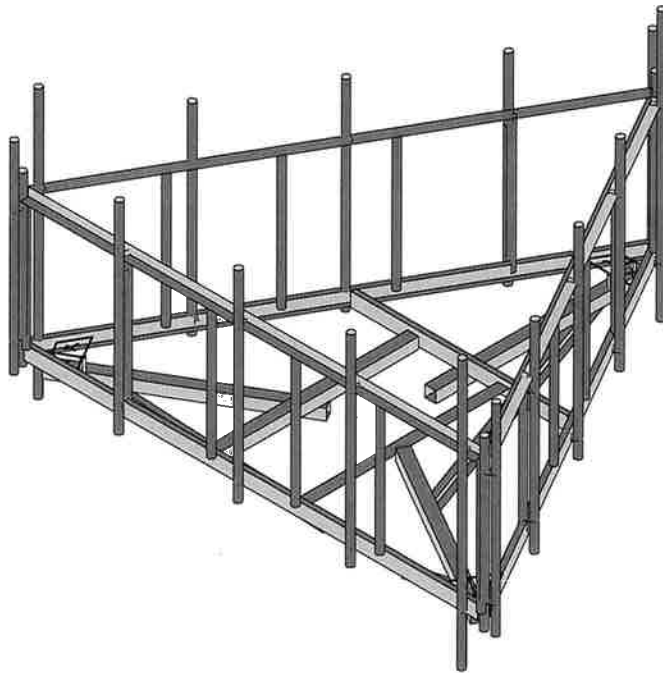
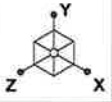
1126-D0001-B

CT11103A Ridgefield

Modification

Sept 17, 2019 at 1:38 PM

Proposed_Ridgefield.r3d



Infinigy Engineering

DWS

1126-D0001-B

CT11103A Ridgefield

Proposed Configuration

Sept 17, 2019 at 1:31 PM

Proposed_Ridgefield.r3d



Company : Infinigy Engineering
 Designer : DWS
 Job Number : 1126-D0001-B
 Model Name : CT11103A Ridgefield

Sept 17, 2019
 1:19 PM
 Checked By: _____

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2		180	C5X6.7	Beam	Channel	A36 Gr.36	Typical
2	M2	N7	N2			C5X6.7	Beam	Channel	A36 Gr.36	Typical
3	M3	N1	N7			C5X6.7	Beam	Channel	A36 Gr.36	Typical
4	M4	N47	N46		180	C5X6.7	Beam	Channel	A36 Gr.36	Typical
5	M5	N45A	N49A		180	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical
6	M6	N48A	N44A		180	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical
7	M7	N50	N51			L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
8	M8	N52	N51		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
9	M9	N50	N52		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
10	SP1	N59	N56A			P2.0	Beam	Pipe	A53 Gr.B	Typical
11	SP6	N60	N57A			P2.0	Beam	Pipe	A53 Gr.B	Typical
12	SP11	N61	N58			P2.0	Beam	Pipe	A53 Gr.B	Typical
13	SP2	N68	N66			P2.0	Beam	Pipe	A53 Gr.B	Typical
14	SP3	N60A	N45A			P2.0	Beam	Pipe	A53 Gr.B	Typical
15	M15	N59A	N44A			P2.0	Beam	Pipe	A53 Gr.B	Typical
16	M16	N63	N61A			P2.0	Beam	Pipe	A53 Gr.B	Typical
17	SP7	N73	N72			P2.0	Beam	Pipe	A53 Gr.B	Typical
18	SP8	N69	N67			P2.0	Beam	Pipe	A53 Gr.B	Typical
19	M19	N68A	N66A			P2.0	Beam	Pipe	A53 Gr.B	Typical
20	M20	N71	N70			P2.0	Beam	Pipe	A53 Gr.B	Typical
21	SP12	N82	N81			P2.0	Beam	Pipe	A53 Gr.B	Typical
22	SP13	N78	N76			P2.0	Beam	Pipe	A53 Gr.B	Typical
23	M23	N77	N75			P2.0	Beam	Pipe	A53 Gr.B	Typical
24	M24	N80	N79			P2.0	Beam	Pipe	A53 Gr.B	Typical
25	M25	N81A	N12			RIGID	None	None	RIGID	Typical
26	M26	N83	N82A			RIGID	None	None	RIGID	Typical
27	M27	N91	N87			RIGID	None	None	RIGID	Typical
28	M28	N89	N85			RIGID	None	None	RIGID	Typical
29	M29	N88	N84			RIGID	None	None	RIGID	Typical
30	M30	N90	N86			RIGID	None	None	RIGID	Typical
31	MP1	N96	N97			P2.0	Beam	Pipe	A53 Gr.B	Typical
32	MP2	N94	N95			P2.0	Beam	Pipe	A53 Gr.B	Typical
33	MP3	N92	N93			P2.0	Beam	Pipe	A53 Gr.B	Typical
34	M34	N75B	N74A			HSS4X4X4	Beam	Tube	A53 Gr.B	Typical
35	M35	N78A	N76A			RIGID	None	None	RIGID	Typical
36	M36	N79A	N77A			RIGID	None	None	RIGID	Typical
37	M37	N83A	N81B			RIGID	None	None	RIGID	Typical
38	M38	N84A	N82B			RIGID	None	None	RIGID	Typical
39	M39	N92A	N90A			RIGID	None	None	RIGID	Typical
40	M40	N93A	N91A			RIGID	None	None	RIGID	Typical
41	M41	N90B	N89B			HSS4X4X4	Beam	Tube	A53 Gr.B	Typical
42	M42	N93B	N92B			HSS4X4X4	Beam	Tube	A53 Gr.B	Typical
43	M45	N102	N98			RIGID	None	None	RIGID	Typical
44	M46	N100	N96A			RIGID	None	None	RIGID	Typical
45	M47	N99	N95A			RIGID	None	None	RIGID	Typical
46	M48	N101	N97A			RIGID	None	None	RIGID	Typical
47	MP6	N107	N108			P2.0	Beam	Pipe	A53 Gr.B	Typical
48	MP7	N105	N106			P2.0	Beam	Pipe	A53 Gr.B	Typical
49	M54	N121	N117			RIGID	None	None	RIGID	Typical
50	M55	N119	N115			RIGID	None	None	RIGID	Typical
51	M56	N118	N114			RIGID	None	None	RIGID	Typical
52	M57	N120	N116			RIGID	None	None	RIGID	Typical
53	MP11	N126	N127			P2.0	Beam	Pipe	A53 Gr.B	Typical
54	MP12	N124	N125			P2.0	Beam	Pipe	A53 Gr.B	Typical
55	M61	N138	N137			LL2.5x2.5x3x6	Beam	Double Angle (...)	A36 Gr.36	Typical
56	M62	N141	N140			LL2.5x2.5x3x6	Beam	Double Angle (...)	A36 Gr.36	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
57	M63	N135	N134A			LL2.5x2.5x3x6	Beam	Double Angle (...)	A36 Gr.36	Typical
58	M67	N147	N146			P2.0	Beam	Pipe	A53 Gr.B	Typical
59	M68	N150	N149			P2.0	Beam	Pipe	A53 Gr.B	Typical
60	M69	N153	N152			P2.0	Beam	Pipe	A53 Gr.B	Typical
61	M70	N153A	N152A			RIGID	None	None	RIGID	Typical
62	M71	N155	N154			RIGID	None	None	RIGID	Typical
63	MP4	N156	N157			P2.0	Beam	Pipe	A53 Gr.B	Typical
64	R76	N171A	N170A			RIGID	None	None	RIGID	Typical
65	R77	N173	N172			RIGID	None	None	RIGID	Typical
66	MP5	N174	N175			P2.0	Beam	Pipe	A53 Gr.B	Typical
67	R67	N154A	N152B			RIGID	None	None	RIGID	Typical
68	R68	N156A	N155A			RIGID	None	None	RIGID	Typical
69	MP8	N157A	N158			P2.0	Beam	Pipe	A53 Gr.B	Typical
70	R70	N160	N159			RIGID	None	None	RIGID	Typical
71	R71	N162	N161			RIGID	None	None	RIGID	Typical
72	MP9	N163	N164			P2.0	Beam	Pipe	A53 Gr.B	Typical
73	R73	N166	N165			RIGID	None	None	RIGID	Typical
74	R74	N168	N167			RIGID	None	None	RIGID	Typical
75	MP10	N169	N170			P2.0	Beam	Pipe	A53 Gr.B	Typical
76	R76A	N173A	N171			RIGID	None	None	RIGID	Typical
77	R77A	N175A	N174A			RIGID	None	None	RIGID	Typical
78	MP13	N176	N177			P2.0	Beam	Pipe	A53 Gr.B	Typical
79	R79	N179	N178			RIGID	None	None	RIGID	Typical
80	R80	N181	N180			RIGID	None	None	RIGID	Typical
81	MP14	N182	N183			P2.0	Beam	Pipe	A53 Gr.B	Typical
82	R82	N185	N184			RIGID	None	None	RIGID	Typical
83	R83	N187	N186			RIGID	None	None	RIGID	Typical
84	MP15	N188	N189			P2.0	Beam	Pipe	A53 Gr.B	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		36	120	0
3	Total General		36	120	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	C5X6.7	4	563.6	.315
7	A36 Gr.36	L3X3X4	3	486	.198
8	A36 Gr.36	L4X4X4	2	144	.079
9	A36 Gr.36	LL2.5x2.5x3x6	3	215.1	.11
10	A53 Gr.B	HSS4X4X4	3	222	.212
11	A53 Gr.B	PIPE 2.0	33	2052	.594
12	Total HR Steel		48	3682.6	1.508
13					
14	Plate Elements	Thickness (in)		Volume (yds^3)	
15	gen Steel	.5	6	0	.046
16	Total Plates		6	0	.046

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...)	
1	Self Weight	DL		-1			42	4	
2	Wind Load AZI 000	WLZ					42	1	
3	Wind Load AZI 090	WLX					42	1	
4	Ice Weight	OL1					42	84	4



Company : Infinigy Engineering
Designer : DWS
Job Number : 1126-D0001-B
Model Name : CT11103A Ridgefield

Sept 17, 2019
1:19 PM
Checked By: _____

Envelope Plate/Shell Principal Stresses (Continued)

	Plate	Surf...	Sigma1 [ksil]	LC	Sigma2 [ksil]	LC	Tau Max [ksil]	LC	Angle [rad]	LC	Von Mises [ksil]	LC
22		min	-39	19	-2.63	19	.129	21	-.712	6	.249	21
23		max	B 3.13	19	.454	18	4.324	27	2.277	22	10.044	38
24		min	-2.384	38	-11.021	38	.489	6	-.549	9	.916	17

Date: 9/17/2019
 Client: Verizon
 Carrier: Verizon
 Engineer: DWS
 Site: Ridgefield CT
 Job #: 1126-D0001-B

Code: LRFD
Bolt Diameter: 0.675
Bolt Grade: A307
Threads Excluded?: N
Axial (lbs): 4639.46
Shear (lbs): 3932.60

Bolt Info:

Yield Strength (F_{yb}): 36.0 kips
 Ultimate Strength (F_{ub}): 60.0 kips
 Threads/in (n): 11
 Gross Area (A_{gb}): 0.358 in²
 Net Area (A_{nb}): 0.270 in²

Bolt Capacity (1/2" A307 Through Bolt), Total of (4) per Connection				
	Ult Load / Bolt	Factored Load ($\phi=0.75$)	# of Bolts	Factor Joint Capacity
Axial (lb)	16205.8	12154.3	1	12154
Shear(lb)	9661.9	7246.4	1	7246

Interaction Check	
$T / \phi T_n$	38.2%
$V / \phi V_n$	54.3%
≤ 1.0	44.0%
	OK