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April 21, 2022

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

Notice of Exempt Modification

AT&T Site ID: 13748401 – New Fairfield

AT&T Site Address: 16 Titicus Mtn Road, New Fairfield, CT 06812

Enclosed are the following documents:

- CSC Cover Page
- Building Permit Application
- Construction Drawings
- Structural Analysis
- EME Study
- 6409 Zoning Letter
- Property Card

I am applying for this on behalf of American Tower Corporation and AT&T, as an authorized agent. Please let me know if you need any additional information for permit approval. Feel free to call me at 339-210-9718 or e-mail me at mbeausoleil@qualtekwireless.com if you have any questions.

Thank you in advance for your assistance.

Sincerely,

Meagan Beausoleil
Site Acquisition Specialist I

Qualtek Wireless
125 Depot Street
Bellingham, MA 02019

*475 Sentry Pkwy E, Suite 200
Blue Bell, PA 19422*



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10 Franklin Square
New Britain, CT 06051

Notice of Exempt Modification

AT&T Site ID: 13748401 – New Fairfield

AT&T Site Address: 16 Titicus Mtn Road, New Fairfield, CT 06812

Latitude: 41.4506863

Longitude: -73.51595683

Dear Ms. Bachman:

AT&T currently maintains (3) antennas at 160 CL height foot level of the existing 187.5-foot Monopole at 16 Titucus Mtn Road, New Fairfield, CT 06812. This tower is owned by American Tower. The property is also owned by American Tower. AT&T now intends to install (6) additional antenna(s). These antennas would be installed at 160 CL height of the tower. AT&T also intends to remove (3) RRUs and (1) DC-6 squid, and install (15) RRUs, (2) DC-9 squid, (3) Y-cables, (6) DC and (2) fiber trunks, (1) 6630 + idle, and (1) XMU03.

This facility was approved by the Town of New Fairfield on the fully executed lease on February 1, 2022. This modification complies with all conditions.

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 Eric J. Kist, Building Official, Town of New Fairfield, Building Department, as well as the property owner and the tower owner.

ATTACHMENT A

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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 replacement 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 <Include "with certain modifications" if the tower will be reinforced to support them>.

For the foregoing reasons, AT&T 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,

Meagan Beausoleil

Meagan Beausoleil
Site Acquisition Specialist I

Qualtek Wireless
125 Depot Street
Bellingham, MA 02019
(339)-210-9718

*475 Sentry Pkwy E, Suite 200
Blue Bell, PA 19422*

Building Permit Project Application (Commercial)

C-22-5

Your Submission

Attachments

Guests (0)

▶ Tax Office Approval

Engineered Plan for Septic / Site Approval

Inland/Wetlands Department Review/ Approval

Erosion Review/Approval

Waive or Add Erosion Permit Fee NOW ???

Add Erosion Permit Document NOW!

Zoning Department Review (THIS COMPLETED REVIEW DOES NOT MEAN A PERMIT IS ISSUED, ALL DEPARTMENTS MUST APPROVE, FEES PAID AND PERMIT AVAILABLE FOR PRINTING BEFORE A PERMIT IS VALID)

Health Department Review (THIS COMPLETED REVIEW DOES NOT MEAN A PERMIT IS ISSUED, ALL DEPARTMENTS MUST APPROVE, FEES PAID AND PERMIT AVAILABLE FOR PRINTING BEFORE A PERMIT IS VALID)

Building Department Review (THIS COMPLETED REVIEW DOES NOT MEAN A PERMIT IS ISSUED, ALL DEPARTMENTS MUST APPROVE, FEES PAID AND PERMIT AVAILABLE FOR PRINTING BEFORE A PERMIT IS VALID)

Fire Marshal Review (THIS COMPLETED REVIEW DOES NOT MEAN A PERMIT IS ISSUED, ALL DEPARTMENTS MUST APPROVE, FEES PAID AND PERMIT AVAILABLE FOR PRINTING BEFORE A PERMIT IS VALID)

Fire Department Approval

Building / Zoning / Fire Marshal / Health Department Permit Fees (WE DO NOT ACCEPT CASH)

Add Zoning Permit Document NOW!

State Well Drilling Permit Approval

Add Septic Permit Document NOW!

Add Building Permit Document NOW!

Tax Assessor Notification (BUILDING PERMIT)

Copy of Zoning Permit to File

Copy of Building Permit to File

Wetlands Inspection

Erosion Inspection

Building Inspections (Inspections listed on the permit are not in order and not all may pertain to your project)

Health Inspection

Zoning Final Inspection

Water Quality Test including VOC's to file

Well Drilling Permit & Well Completion Report to File

Health Sign off

Wetlands sign off

Erosion Sign Off

Zoning Sign Off

Add Zoning Compliance Certificate NOW

Building Sign Off

Add Building Document Now (CO, COA)

Add CO/COA Issuance data

Add Permit to Discharge Document NOW!

Copy of Permit to Discharge to File

Copy of Building CO/COA Document to file

Copy of Zoning Compliance to File

Copy of Survey to File

Tax Assessor Notification (CO / COA ISSUED)

Your submission

Submitted Apr 20, 2022 at 2:50pm

Contact Information

Meagan Beausoleil

Email address

mbeausoleil@qualtekwireless.com

Phone Number

3392109718

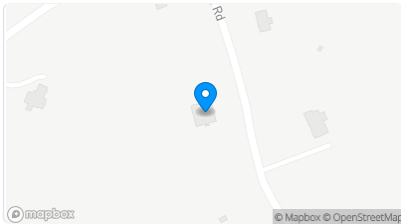
Mailing Address

125 Depot St , Bellingham, MA 02019

Location

16 TITICUS MTN RD

NEW FAIRFIELD, CT 06812



Proposed Work

DETAILED COMPLETE DESCRIPTION OF PROJECT: This appears on the permit and is a permanent part of the property file. Please be SPECIFIC *

Remove 3 RRU and 1 DC-6 Squid; Install 6 antenna, 15 RRUs, 2 DC9 squid, 3 y-cable, 6 DC and 2 fiber trucks

Total Cost of Project (All Disciplines) *

10,000

AT THE END OF THIS APPLICATION WOULD YOU BE WILLING TO TAKE A BRIEF SURVEY TO HELP US IMPROVE OUR CUSTOMER SERVICE? *

Yes

Existing Building *

Yes

Is this a "Fit Out" for an existing space or store front *

Yes

New Construction *

No

Other *

Yes

Alteration *

Yes

Change of Occupancy *

No

Renovation *

Yes

Change of Use *

No

Repair *

No

Addition *

Yes

Sprinklers *

No

If Other. Please Specify. *

Telecommunications

Plumbing (Only choose YES when the contractor is known and you have their credentials)
(Choose NO if you do not have their credentials, A separate permit will be required) *

No

Electrical (Only choose YES when the contractor is known and you have their credentials)
(Choose NO if you do not have their credentials, A separate permit will be required) *

No

HVAC (Only choose YES when the contractor is known and you have their credentials) (Choose
NO if you do not have their credentials, A separate permit will be required) *

No

Sprinkler (Only choose YES when the contractor is known and you have their credentials)
(Choose NO if you do not have their credentials, A separate permit will be required) *

No

LP Appliance, Piping, Tank Install (Only choose YES when the contractor is known and you have
their credentials) (Choose NO if you do not have their credentials, A separate permit will be
required) *

No

I have completed a Structural Engineering Review plan



I have building plans and/or construction documents *



Is there septic work needed for this project? *

No

Will you be modifying the existing driveway?

No

Will a new driveway be installed? *

No

Construction Control

Check box if the any of these apply: The building exceeds threshold limits, is an A, E, I, H or
Transient R use, or over 30,000 sq. ft

--

Existing building undergoing renovation, addition, or change in use or occupancy

Existing use group(s)

--

Proposed use group(s)

--

Building Height and Area

Height and area calculation is done

--

Proposed number of stories/floors

--

Proposed area per floor (square feet) *

0

Existing area per floor (square feet) *

0

Existing number of stories

--

Existing area per floor (square feet)

--

Total square feet of building or structure. *

1-1999 SqFt

Construction type

Select construction type *

IIB

Registered professional responsible for construction

Name (Registrant)

Kevin Cunningham

Telephone

--

E-mail address

mbeausoleil@qualtekwireless.com

Street address

29 Hale Road

City/Town

Stow

State

MA

Zip

01775

Registration number

CS-088703

Discipline

--

Expiration date

10/09/2023

Property owner authorization

Name *

American Towers Inc

Address number and street *

10 Presidential Way

City/Town *

Woburn, MA

Zip *

01801

Phone Number *

781-926-4500

The property owner hereby authorizes the following party to to act on the property owner's behalf in all matters relative to work authorized by this building permit application

Name (Registrant)

Meagan Beausoleil on behalf of Qualtek Wireless

Street address

125 Depot St

City/Town

Bellingham

State

MA

Zip

02019

General Contractor

Name of contractor *

QUALTEK WIRELESS LLC

License number and type (if applicable) *

MCO.0904150

Street address *

475 Sentry Pkwy E # 200

City/Town *

Blue Bell

State *

PA

Zip *

19422

Telephone (business) *

3392109718

Telephone (cell) *

3392109718

E-mail address *

mbeausoleil@qualtekwireless.com

Health Engineered Plan (A engineered design flow letter will be required)

Engineer's Name *

N/A

Engineer's License Number *

N/A

Engineer's Phone *

N/A

Engineers email address *

N/A

Soil and Sediment Control Measures

Anti-Tracking Pad *

No

Silt Fence / Hay Bale *

No

Catch Basin Protection *

No

Other

--

Erosion Control Plan attached *

No

Proximity to Regulated Wetlands Watercourse *

N/A

Responsible Party for Maintaining Erosion Control *

N/A

Responsible Party for Maintaining Erosion Control Phone Number *

N/A

Use Group (Select as applicable)

A: Assembly

--

B: Business

Business

E: Educational

--

F: Factory

--

H: High hazard

--

I: Institutional

--

M: Mercantile

--

R: Residential

--

S: Storage

--

U: Utility

Utility

Special use

No

Mandatory Pre-Application

MANDATORY PRE APPLICATION FOR ALL LAND USE, HEALTH, AND BUILDING APPLICATIONS Except for interior work in existing buildings and exterior work that does not expand or alter the footprint of an existing building. Effective October 1, 2005 no Land Use, Health or Building application for a permit may be filed until the holder(s) of any conservation restriction or preservation restriction on the subject property has been notified. Please see the attached legislation, PA 05-124. Please provide the name of the property owner(s) and street address of the property for which one of the above applications will be submitted and complete either A or B below. Property Owner(s): Address of Permit Application: A. I hereby certify there are NO conservation easements or restrictions nor any preservation restrictions on the above referenced propeerty. B. There ARE conservation easements or restrictions or preservation restrictions on the above referenced property. Name/Phone Number of Restriction Holder: Please attach one of the following: 1. Proof that the holder of the conservation or preservation restriction was notified by certified mail return receipt requested of the property owner's intent to apply for a Land Use, Health or Building permit in the Town of New Fairfield. 2. A letter from the conservation or preservation restriction holder verifying that the application is in compliance with the terms of the restriction. * *



Property owner contact informaton

Title

--

Telephone (business)

--

Telephone (cell)

--

e-mail address

--

Acknowledgements

I HEREBY ACKNOWLEDGE AND CERTIFY THAT I'M PERSONALLY FAMILIAR WITH ALL THE INFORMATION PROVIDED IN THIS APPLICATION AND THAT ALL STATEMENTS AND REPRESENTATIONS MADE ARE TRUE TO THE BEST OF MY KNOWLEDGE. I FURTHER CERTIFY THAT I AM AWARE OF THE PENALTIES FOR OBTAINING A PERMIT THROUGH DECEPTION OR THROUGH INACCURATE OR MISLEADING INFORMATION. * *



I agree that my electronic signature below is equivalent to a handwritten signature and is binding for all purposes related to this transaction. * *



First & Last Name *

Meagan Beausoleil

Date *

04/20/2022

I agree to provide a hard copy of construction documents to the fire marshal's office for review prior to approval. *



THANK YOU FOR TAKING THE TIME TO TAKE THIS SATISFACTION SURVEY

How was your overall experience with the permit application process? *

Good

Did you contact this office with any issues with the permit process? *

No

Did the person you spoke with resolve your issue?

--

Was the person you spoke with courteous?

--

How long did it take to resolve your issue?

--

Would you like to be contacted if your issue was not resolved?

--

Additional Comments / Suggestions:

--

Town of New Fairfield, CT

Your Profile

[Your Records \(/dashboard/records\)](/dashboard/records)

Resources

[Search for Records \(/search\)](/search)

[Claim a Record \(/claimRecord\)](/claimRecord)

[Employee Login \(https://newfairfieldct.viewpointcloud.io\)](https://newfairfieldct.viewpointcloud.io)

Portal powered by **OpenGov**



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 188 ft Self Support Tower
ATC Site Name : NEW FAIRFIELD,CT
ATC Site Number : 88014
Engineering Number : 13748401_C3_03
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : MRCTB052690
Carrier Site Number : CTL05534
Site Location : 22 Titicus Mtn Road
New Fairfield, CT 06812-2565
41.4507, -73.516
County : Fairfield
Date : January 27, 2022
Max Usage : 73%
Result : Pass

Prepared By:

Faisal Wakid
Structural Engineer

Faisal Wakid

Reviewed By:



COA : PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 188 ft Self Support tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	Analysis by CSEI, ATC Eng. #26464321, dated August 21, 2006.
Foundation Drawing	Mapping By Geotel Report #E08-291-F, dated May 19, 2008
Geotechnical Report	Geotel Report #E08-291-G, dated May 19, 2008

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:	115 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_s = 0.22, S_i = 0.06$
Site Class:	D - Stiff Soil - Default

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

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
193.0	3	Ericsson KRY 112 144/1	Square Low Profile Platform	(1) 1 5/8" (1.63"-41.3mm) Fiber (12) 1 5/8" Coax (1) 1/4" Coax	T-MOBILE
	3	Ericsson RRUS 11 B12			
	1	RFS SC2-W100AB			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			
	3	Ericsson AIR 21, 1.3M, B4A B2P			
191.0	3	Commscope LNX-6515DS-VTM			
190.0	-	-	-	(1) 7/8" Coax	OTHER
170.3	-	-	Catwalk	-	-
167.0	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	Sector Frame	(1) 1 1/4" (1.25"-31.8mm) Fiber (3) 1 1/4" Hybriflex Cable	SPRINT NEXTEL
	3	Alcatel-Lucent ALU 800MHz External Notch Filter			
	3	Alcatel-Lucent 2X50W RRH w/o Filter			
	3	Alcatel-Lucent 4x40W RRH (91 lb)			
	3	RFS APXV9TM14-ALU-I20*			
	3	RFS APXVSP18-C-A20			
160.0	3	Ericsson RRUS 32 B2	Sector Frame	(6) 1 5/8" Coax	AT&T MOBILITY
	3	Allgon 7770.00			
	3	CCI HPA-65R-BUU-H6			
	6	Powerwave Allgon LGP21401			
146.0	2	Commscope TD-850B-LTE78-43	Site Pro 1 VFA12-HD Sector Frame	(1) 1 1/4" (1.25"-31.8mm) Fiber (10) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Samsung MT6407-77A			
	1	Raycap RCMD-6627-PF-48			
	2	Generic 48" x 12" Panel			
	2	Antel LPA-80063/4CF			
	6	JMA Wireless MX06FRO660-03			
	1	Amphenol Antel BXA-171063-8BF-EDIN-X			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung B5/B13 RRH-BR04C			
	6	Commscope SBNHH-1D65B			
	1	Amphenol Antel BXA-70063-6CF-EDIN-X			
137.5	-	-	Rest Platform	-	-
	-	-	Empty Side Arm		
137.0	3	Fujitsu TA08025-B605	Sector Frame	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B604			
	3	JMA Wireless MX08FRO665-21			
	1	Commscope RDIDC-9181-PF-48			
120.0	-	-	Empty Side Arm	-	-
112.5	-	-	Empty Side Arm		
100.0	-	-	Empty Side Arm		
	-	-	Platform		
87.5	-	-	Rest Platform		
80.0	1	Andrew DB616E-BC	Side Arm	(1) 7/8" Coax	US DEPT OF HOMELAND SECURITY
50.0	-	-	Rest Platform	-	-
33.3	-	-	-	Coax Cage	

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
160.0	1	Raycap DC6-48-60-18-8F	-	(1) 0.28" (7mm) Fiber (2) 0.74" (18.7mm) 8 AWG 7 (1) 3" conduit	AT&T MOBILITY
	3	Ericsson RRUS 11 (Band 12) (55 lb)			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
160.0	6	Kathrein Scala 860 10025	Sector Frame	(2) 0.40" (10.3mm) Fiber (2) 0.82" (20.8mm) 8 AWG 6 (4) 0.92" (23.4mm) Cable	AT&T MOBILITY
	3	Ericsson RRUS 8843 B2, B66A			
	3	Ericsson RRUS 4426 B66			
	3	Ericsson RRUS 4415 B30			
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 4478 B14			
	2	Raycap DC9-48-60-24-8C-EV			
	3	CCI DMP65R-BU6DA			
	3	CCI OPA65RBU6DA			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines alongside existing AT&T MOBILITY lines.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	46%	Pass
Diagonals	73%	Pass
Horizontals	35%	Pass
Anchor Bolts	52%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	157.5	59%
Axial (Kips)	219.4	25%

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, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
193.0	RFS SC2-W100AB	T-MOBILE	0.102	0.004	0.048
160.0	CCI DMP65R-BU6DA	AT&T MOBILITY	0.080	0.004	0.046
	CCI OPA65RBU6DA				
	Ericsson RRUS 4415 B30				
	Ericsson RRUS 4426 B66				
	Ericsson RRUS 4449 B5, B12				
	Ericsson RRUS 4478 B14				
	Ericsson RRUS 8843 B2, B66A				
	Kathrein Scala 860 10025				
	Raycap DC9-48-60-24-8C-EV				

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

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.

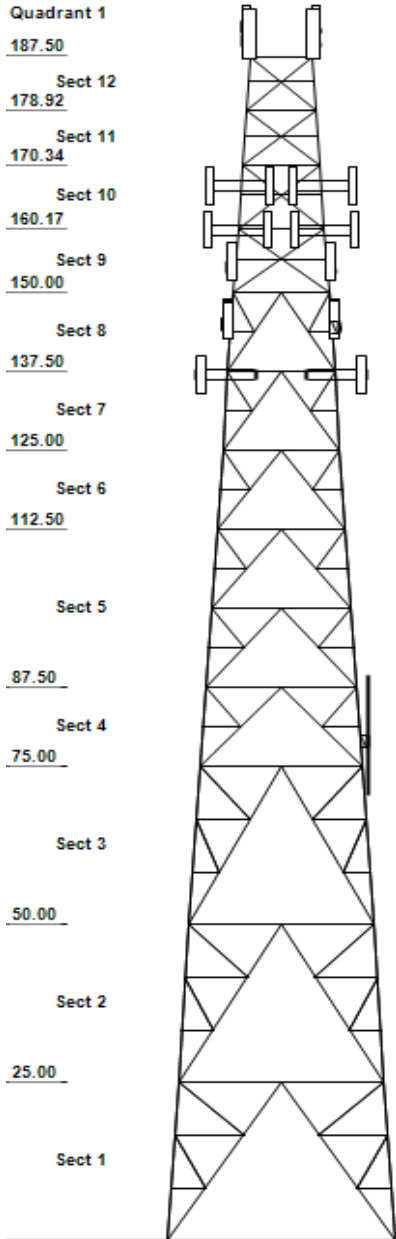
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively “American Tower”) are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

Asset: 88014, NEW FAIRFIELD
 Client: AT&T MOBILITY
 Code: ANSI/TIA-222-H

Height : 187.5 ft
 Base Width : 32.45 ft
 Shape : Square



SITE PARAMETERS

Nominal Wind : 115 mph wind with no ice Exposure : B Site Class : D
 Ice Wind: 50 mph wind with 1" radial Topo Method: Method 1 Risk Cat : II
 Service Wind : 60 mph Serviceability Topo Feature : S₃ : 0.224 S₁ : 0.056

SECTION PROPERTIES

Section	Leg Members	Diagonal Members	Horizontal Members
1	SAE 36 ksi 8X8X0.875	DAS 36 ksi 3.5X3X0.25	DAL 36 ksi 3X2.5X0.3125
2	SAE 36 ksi 8X8X0.75	DAS 36 ksi 3X2.5X0.25	DAL 36 ksi 3X2.5X0.25
3	SAE 36 ksi 8X8X0.75	DAS 36 ksi 3X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
4	SAE 36 ksi 6X6X0.875	DAE 36 ksi 2.5X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
5	SAE 36 ksi 6X6X0.75	DAE 36 ksi 2.5X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
6 - 7	SAE 36 ksi 6X6X0.5625	DAL 36 ksi 2.5X2X0.25	DAE 36 ksi 2.5X2.5X0.25
8	SAE 36 ksi 6X6X0.4375	DAL 36 ksi 2.5X2X0.25	DAE 36 ksi 2.5X2.5X0.25
9	SAE 36 ksi 5X5X0.4375	SAE 36 ksi 3.5x3.5x0.25	SAU 36 ksi 3X2.5X0.25
10	SAE 36 ksi 5X5X0.4375	SAE 36 ksi 3.5x3.5x0.25	DAL 36 ksi 3X2.5X0.25
11	SAE 36 ksi 5X5X0.3125	SAE 36 ksi 3X3X0.25	SAU 36 ksi 3X2.5X0.25
12	SAE 36 ksi 5X5X0.3125	SAE 36 ksi 3X3X0.25	CHN 36 ksi C8 x 11.5

REDUNDANT SECONDARY BRACING

Section	Sub Diag 1	Sub Horiz 1	Sub Diag 2	Sub Horiz 2	Sub Diag 3	Sub Horiz 3
1 - 3	D2.5X2X0.1875	S2.5X2.5X0.187	D2.5X2X0.1875	S2.5X2.5X0.187	-	-
4 - 8	D2.5X2X0.1875	S2.5X2.5X0.187	-	-	-	-
9 - 12	-	S2X2X0.25	-	-	-	-

DISCRETE APPURTENANCE

Elev (ft)	Type	Qty	Description
193.00	DISH-HP	1	RFS SC2-W100AB
193.00	PANEL	3	Ericsson AIR 21, 1.3 M, B2A B4
193.00	PANEL	3	Ericsson AIR 21, 1.3M, B4A B2P
193.00	RRU/RRH	3	Ericsson RRUS 11 B12
193.00	TTA	3	Ericsson KRY 112 144/1
191.00	PANEL	3	Commscope LNX-6515DS-VTM
187.50	T-Arm	6	Pipe Mount
187.50	Triangular Low Profile Platform	1	Platform
172.50	RRU/RRH	3	Alcatel-Lucent TD-RRH8x20-25 w
171.90	Filter	3	Alcatel-Lucent ALU 800MHz Exte
171.90	RRU/RRH	3	Alcatel-Lucent 2X50W RRH w/o F
170.30	Triangular Low Profile Platform	1	Catwalk
167.00	PANEL	3	RFS APXV9TM14-ALU-I20*
167.00	PANEL	3	RFS APXVSPP18-C-A20
167.00	RRU/RRH	3	Alcatel-Lucent 4x40W RRH (91 I
167.00	Sector Frame	3	Generic Flat Light Sector Fram
160.00	BOB/SSB	2	Raycap DC9-48-60-24-8C-EV
160.00	PANEL	3	CCI OPA65RBU6DA
160.00	PANEL	3	CCI DMP65R-BU6DA
160.00	RET/RCU	6	Kathrein Scala 860 10025
160.00	RRU/RRH	3	Ericsson RRUS 4415 B30
160.00	RRU/RRH	3	Ericsson RRUS 4426 B66
160.00	RRU/RRH	3	Ericsson RRUS 8843 B2, B66A
160.00	RRU/RRH	3	Ericsson RRUS 4449 B5, B12

Asset: 88014, NEW FAIRFIELD
 Client: AT&T MOBILITY
 Code: ANSI/TIA-222-H

Height : 187.5 ft
 Base Width : 32.45 ft
 Shape : Square

DISCRETE APPURTENANCE

Elev (ft)	Type	Qty	Description
160.00	RRU/RRH	3	Ericsson RRUS 32 B2
160.00	RRU/RRH	3	Ericsson RRUS 4478 B14
160.00	Sector Frame	3	Generic Flat Light Sector Fram
155.70	PANEL	3	Allgon 7770.00
155.10	PANEL	3	CCI HPA-65R-BUU-H6
155.00	TTA	6	Powerwave Allgon LGP21401
146.00	BOB/SSB	1	Raycap RCMDC-6627-PF-48
146.00	DIPLEXER/DUAL COUPLER	2	Commscope TD-850B-LTE78-43
146.00	PANEL	1	Amphenol Antel BXA-171063-8BF-
146.00	PANEL	2	Antel LPA-80063/4CF
146.00	PANEL	2	Generic 48" x 12" Panel
146.00	PANEL	3	Samsung MT6407-77A
146.00	PANEL	6	JMA Wireless MX06FRO660-03
146.00	RRU/RRH	3	Samsung B2/B66A RRH-BR049
146.00	RRU/RRH	3	Samsung B5/B13 RRH-BR04C
145.70	PANEL	6	Commscope SBNHH-1D65B
145.50	PANEL	1	Amphenol Antel BXA-70063-6CF-E
145.00	Other	3	Site Pro 1 VFA12-HD Sector Fra
137.50	Sector Frame	1	Rest Platform
137.50	Side Arm	1	Generic Flat Side Arm
137.00	BOB/SSB	1	Commscope RDIDC-9181-PF-48
137.00	PANEL	3	JMA Wireless MX08FRO665-21
137.00	RRU/RRH	3	Fujitsu TA08025-B605
137.00	RRU/RRH	3	Fujitsu TA08025-B604
137.00	Sector Frame	3	Generic Flat Light Sector Fram
120.00	Side Arm	1	Generic Flat Side Arm
112.50	Side Arm	1	Generic Flat Side Arm
100.00	Side Arm	1	Generic Flat Side Arm
100.00	Triangular Low Profile Platform	1	Platform
87.50	Sector Frame	1	Rest Platform
82.00	Side Arm	1	Generic Round Side Arm
80.00	OMNI	1	Andrew DB616E-BC
50.00	Sector Frame	1	Rest Platform

LINEAR APPURTENANCE

Elev (ft) From	To	Qty	Description
10.00	193.00	1	1/4" Coax
10.00	193.00	12	1 5/8" Coax
0.00	193.00	1	1 5/8" (1.63"-41.3mm) Fiber
0.00	190.00	1	7/8" Coax
0.00	187.50	1	Waveguide
0.00	187.50	1	Climbing Ladder
0.00	182.00	1	Waveguide
0.00	176.00	1	Waveguide
0.00	172.00	1	1 1/4" (1.25"- 31.8mm) Fiber
10.00	167.00	3	1 1/4" Hybriflex Cable
0.00	160.00	1	Waveguide
0.00	160.00	4	0.92" (23.4mm) Cable
0.00	160.00	2	0.82" (20.8mm) 8 AWG 6
0.00	160.00	2	0.40" (10.3mm) Fiber
10.00	155.00	6	1 5/8" Coax

Asset: 88014, NEW FAIRFIELD
 Client: AT&T MOBILITY
 Code: ANSI/TIA-222-H

Height : 187.5 ft
 Base Width : 32.45 ft
 Shape : Square

LINEAR APPURTENANCE

Elev (ft)		Qty	Description
From	To		
0.00	149.00	1	1 1/4" (1.25"- 31.8mm) Fiber
0.00	146.00	2	1 5/8" Hybriflex
10.00	146.00	10	1 5/8" Coax
0.00	145.00	1	Waveguide
0.00	137.00	1	1.75" (44.5mm) Hybrid
10.00	80.00	1	7/8" Coax
8.30	33.30	4	Coax Cage

GLOBAL BASE FOUNDATION DESIGN LOADS

Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL+WL	8448.32	141.03	75.59
DL+WL+IL	2602.87	252.66	23.65

INDIVIDUAL BASE FOUNDATION DESIGN LOADS

Vertical (kip)	Uplift (kip)	Horizontal (kip)
219.38	157.54	30.59

ASSET: # 88014, NEW FAIRFIELD
CUSTOMER AT&T MOBILITY

STANDARD ANSI/TIA-222-H
ENG NO.: 13748401_C3_03

ANALYSIS PARAMETERS

Location:	Fairfield County, CT	Height:	187.5 ft
Type and Shape:	Self Support, Square	Base Elevation:	0.00 ft
Manufacturer:	AT&T TAG	Bottom Face Width:	32.45 ft
Kd	0.85	Top Face Width:	9.00 ft
Ke:	0.97	Anchor Bolt Detail Type:	c

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed Without Ice:	115 mph
Risk Category:	II	Design Wind Speed with Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	Flat	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	890 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	0.68
T_L (sec):	6	P:	1.3
S_s:	0.224	S₁:	0.056
F_a:	1.600	F_v:	2.400
S_{ds}:	0.239	S_{d1}:	0.090
		C_s:	0.044
		C_{s, Max}:	0.044
		C_{s, Min}:	0.030

LOAD CASES

1.2D + 1.0W Normal	115 mph wind with no ice
1.2D + 1.0W 45°	115 mph wind with no ice
0.9D + 1.0W Normal	115 mph wind with no ice
0.9D + 1.0W 45°	115 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 45°	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
1.2D + 1.0Ev + 1.0Eh 45°	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 45°	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice
1.0D + 1.0W Service 45°	60 mph Wind with No Ice

TOWER LOADING

Discrete Appurtenance Properties 1.2D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA Length (sf)	Width (in)	Depth (in)	K _a	Orient Factor	Vert Ecc (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)	
193.0	Ericsson KRY 112 144/1	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.00	33.23	12	40
193.0	Ericsson RRUS 11 B12	3	51	2.8	1.6	17.0	7.2	0.80	0.67	0.0	0.00	33.23	127	183
193.0	RFS SC2-W100AB	1	22	4.8	2.2	26.4	11.5	1.00	1.00	0.0	0.00	33.23	135	26
193.0	Ericsson AIR 21, 1.3 M, B2A B4	3	83	6.0	4.7	12.0	8.0	0.80	0.71	0.0	0.00	33.23	291	299
193.0	Ericsson AIR 21, 1.3M, B4A B2P	3	82	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.00	33.23	289	293
191.0	Commscope LNX-6515DS-VTM	3	50	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	33.13	541	181
187.5	Pipe Mount	6	150	3.3	6.0	6.0	6.0	1.00	1.00	0.0	0.00	32.96	555	1080
187.5	Platform	1	8000	70.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.96	1961	9600
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.67	0.0	0.00	32.18	178	252
171.9	Alcatel-Lucent ALU 800MHz Exte	3	9	0.7	0.8	8.0	3.0	0.80	0.50	0.0	0.00	32.15	22	32
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	53	2.1	1.6	13.0	8.6	0.80	0.67	0.0	0.00	32.15	90	191
170.3	Catwalk	1	6500	55.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.06	1499	7800
167.0	Alcatel-Lucent 4x40W RRH (91 I	3	91	3.3	1.9	13.0	17.3	0.80	0.67	0.0	0.00	31.88	143	328
167.0	RFS APXV9TM14-ALU-I20*	3	55	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.00	31.88	272	198
167.0	RFS APXVSP18-C-A20	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.00	31.88	360	205
167.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	31.88	819	1440
160.0	Kathrein Scala 860 10025	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.00	31.50	10	9
160.0	Ericsson RRUS 8843 B2, B66A	3	72	1.6	1.2	13.2	10.9	0.80	0.50	0.0	0.00	31.50	53	259
160.0	Ericsson RRUS 4426 B66	3	48	1.6	1.3	13.2	5.8	0.80	0.50	0.0	0.00	31.50	53	174
160.0	Ericsson RRUS 4415 B30	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.00	31.50	59	166
160.0	Ericsson RRUS 4449 B5, B12	3	71	2.0	1.5	13.2	9.4	0.80	0.50	0.0	0.00	31.50	63	256
160.0	Ericsson RRUS 4478 B14	3	59	2.0	1.5	13.4	8.3	0.80	0.67	0.0	0.00	31.50	87	214
160.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	0.80	0.67	0.0	0.00	31.50	118	191
160.0	Raycap DC9-48-60-24-8C-EV	2	16	4.8	2.6	18.3	10.2	0.80	0.75	0.0	0.00	31.50	154	38
160.0	CCI DMP65R-BU6DA	3	79	12.7	5.9	20.7	7.7	0.80	0.63	0.0	0.00	31.50	514	286
160.0	CCI OPA65RBU6DA	3	60	12.9	5.9	21.0	7.8	0.80	0.63	0.0	0.00	31.50	521	217
160.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	31.50	722	1440
155.7	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.00	31.25	228	126
155.1	CCI HPA-65R-BUU-H6	3	51	9.7	6.0	14.8	9.0	0.80	0.69	0.0	0.00	31.22	424	184
155.0	Powerwave Allgon LGP21401	6	14	1.1	1.2	9.2	2.6	0.80	0.50	0.0	0.00	31.21	70	102
146.0	Samsung B2/B66A RRH-BR049	3	84	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	30.68	59	304
146.0	Samsung B5/B13 RRH-BR04C	3	70	1.9	1.3	15.0	8.1	0.80	0.50	0.0	0.00	30.68	59	253
146.0	Commscope TD-850B-LTE78-43	2	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.00	30.68	41	127
146.0	Amphenol Antel BXA-171063-8BF-	1	11	2.9	4.0	6.1	4.1	0.80	1.00	0.0	0.00	30.68	61	13
146.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	0.67	0.0	0.00	30.68	57	38
146.0	Samsung MT6407-77A	3	82	4.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	30.68	180	294
146.0	Generic 48" x 12" Panel	2	30	5.1	4.0	12.0	6.0	0.80	0.75	0.0	0.00	30.68	159	72
146.0	Antel LPA-80063/4CF	2	20	6.1	4.0	15.2	13.2	0.80	0.82	0.0	0.00	30.68	210	48
146.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	30.68	877	432
145.7	Commscope SBNHH-1D65B	6	51	8.2	6.1	11.9	7.1	0.80	0.69	0.0	0.00	30.66	706	365
145.5	Amphenol Antel BXA-70063-6CF-E	1	17	7.6	5.9	11.2	5.2	0.90	1.00	0.0	0.00	30.65	177	20
145.0	Site Pro 1 VFA12-HD Sector Fra	3	738	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	30.62	565	2657
137.5	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	30.16	162	225
137.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	30.16	385	600
137.0	Commscope RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	1.00	0.0	0.00	30.13	38	26
137.0	Fujitsu TA08025-B605	3	75	2.0	1.3	15.0	9.1	0.80	0.50	0.0	0.00	30.13	60	270
137.0	Fujitsu TA08025-B604	3	64	2.0	1.3	15.0	7.9	0.80	0.50	0.0	0.00	30.13	60	230
137.0	JMA Wireless MX08FRO665-21	3	65	12.5	6.0	20.0	8.0	0.80	0.64	0.0	0.00	30.13	491	232
137.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	30.13	774	1440
120.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	29.01	155	225
112.5	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	28.48	153	225
100.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.54	147	225
100.0	Platform	1	5500	45.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.54	1053	6600
87.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.51	338	600
82.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.02	115	225
80.0	Andrew DB616E-BC	1	51	6.7	19.3	3.5	3.5	1.00	1.00	0.0	0.00	25.84	148	61
50.0	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	22.59	288	600
Totals		148	35,180	1035.1								17,889	42,216	

TOWER LOADING

Discrete Appurtenance Properties 0.9D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA Length (sf)	Width (in)	Depth (in)	K _a	Orient Factor	Vert Ecc (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)	
193.0	Ericsson KRY 112 144/1	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.00	33.23	12	30
193.0	Ericsson RRUS 11 B12	3	51	2.8	1.6	17.0	7.2	0.80	0.67	0.0	0.00	33.23	127	137
193.0	RFS SC2-W100AB	1	22	4.8	2.2	26.4	11.5	1.00	1.00	0.0	0.00	33.23	135	20
193.0	Ericsson AIR 21, 1.3 M, B2A B4	3	83	6.0	4.7	12.0	8.0	0.80	0.71	0.0	0.00	33.23	291	224
193.0	Ericsson AIR 21, 1.3M, B4A B2P	3	82	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.00	33.23	289	220
191.0	Commscope LNX-6515DS-VTM	3	50	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	33.13	541	136
187.5	Pipe Mount	6	150	3.3	6.0	6.0	6.0	1.00	1.00	0.0	0.00	32.96	555	810
187.5	Platform	1	8000	70.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.96	1961	7200
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.67	0.0	0.00	32.18	178	189
171.9	Alcatel-Lucent ALU 800MHz Exte	3	9	0.7	0.8	8.0	3.0	0.80	0.50	0.0	0.00	32.15	22	24
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	53	2.1	1.6	13.0	8.6	0.80	0.67	0.0	0.00	32.15	90	143
170.3	Catwalk	1	6500	55.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.06	1499	5850
167.0	Alcatel-Lucent 4x40W RRH (91 I	3	91	3.3	1.9	13.0	17.3	0.80	0.67	0.0	0.00	31.88	143	246
167.0	RFS APXV9TM14-ALU-I20*	3	55	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.00	31.88	272	149
167.0	RFS APXVSP18-C-A20	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.00	31.88	360	154
167.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	31.88	819	1080
160.0	Kathrein Scala 860 10025	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.00	31.50	10	6
160.0	Ericsson RRUS 8843 B2, B66A	3	72	1.6	1.2	13.2	10.9	0.80	0.50	0.0	0.00	31.50	53	194
160.0	Ericsson RRUS 4426 B66	3	48	1.6	1.3	13.2	5.8	0.80	0.50	0.0	0.00	31.50	53	131
160.0	Ericsson RRUS 4415 B30	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.00	31.50	59	124
160.0	Ericsson RRUS 4449 B5, B12	3	71	2.0	1.5	13.2	9.4	0.80	0.50	0.0	0.00	31.50	63	192
160.0	Ericsson RRUS 4478 B14	3	59	2.0	1.5	13.4	8.3	0.80	0.67	0.0	0.00	31.50	87	160
160.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	0.80	0.67	0.0	0.00	31.50	118	143
160.0	Raycap DC9-48-60-24-8C-EV	2	16	4.8	2.6	18.3	10.2	0.80	0.75	0.0	0.00	31.50	154	29
160.0	CCI DMP65R-BU6DA	3	79	12.7	5.9	20.7	7.7	0.80	0.63	0.0	0.00	31.50	514	214
160.0	CCI OPA65RBU6DA	3	60	12.9	5.9	21.0	7.8	0.80	0.63	0.0	0.00	31.50	521	163
160.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	31.50	722	1080
155.7	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.00	31.25	228	94
155.1	CCI HPA-65R-BUU-H6	3	51	9.7	6.0	14.8	9.0	0.80	0.69	0.0	0.00	31.22	424	138
155.0	Powerwave Allgon LGP21401	6	14	1.1	1.2	9.2	2.6	0.80	0.50	0.0	0.00	31.21	70	76
146.0	Samsung B2/B66A RRH-BR049	3	84	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	30.68	59	228
146.0	Samsung B5/B13 RRH-BR04C	3	70	1.9	1.3	15.0	8.1	0.80	0.50	0.0	0.00	30.68	59	190
146.0	Commscope TD-850B-LTE78-43	2	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.00	30.68	41	95
146.0	Amphenol Antel BXA-171063-8BF-	1	11	2.9	4.0	6.1	4.1	0.80	1.00	0.0	0.00	30.68	61	9
146.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	0.67	0.0	0.00	30.68	57	29
146.0	Samsung MT6407-77A	3	82	4.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	30.68	180	220
146.0	Generic 48" x 12" Panel	2	30	5.1	4.0	12.0	6.0	0.80	0.75	0.0	0.00	30.68	159	54
146.0	Antel LPA-80063/4CF	2	20	6.1	4.0	15.2	13.2	0.80	0.82	0.0	0.00	30.68	210	36
146.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	30.68	877	324
145.7	Commscope SBNHH-1D65B	6	51	8.2	6.1	11.9	7.1	0.80	0.69	0.0	0.00	30.66	706	274
145.5	Amphenol Antel BXA-70063-6CF-E	1	17	7.6	5.9	11.2	5.2	0.90	1.00	0.0	0.00	30.65	177	15
145.0	Site Pro 1 VFA12-HD Sector Fra	3	738	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	30.62	565	1993
137.5	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	30.16	162	169
137.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	30.16	385	450
137.0	Commscope RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	1.00	0.0	0.00	30.13	38	20
137.0	Fujitsu TA08025-B605	3	75	2.0	1.3	15.0	9.1	0.80	0.50	0.0	0.00	30.13	60	202
137.0	Fujitsu TA08025-B604	3	64	2.0	1.3	15.0	7.9	0.80	0.50	0.0	0.00	30.13	60	173
137.0	JMA Wireless MX08FRO665-21	3	65	12.5	6.0	20.0	8.0	0.80	0.64	0.0	0.00	30.13	491	174
137.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	30.13	774	1080
120.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	29.01	155	169
112.5	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	28.48	153	169
100.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.54	147	169
100.0	Platform	1	5500	45.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.54	1053	4950
87.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.51	338	450
82.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.02	115	169
80.0	Andrew DB616E-BC	1	51	6.7	19.3	3.5	3.5	1.00	1.00	0.0	0.00	25.84	148	46
50.0	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	22.59	288	450
Totals		148	35,180	1035.1								17,889	31,662	

TOWER LOADING

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA Length (sf)	Width (in)	Depth (in)	K _a	Orient Factor	Vert Ecc (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)	
193.0	Ericsson KRY 112 144/1	3	18	0.6	0.6	6.1	2.7	0.80	0.50	0.0	0.00	6.28	4	62
193.0	Ericsson RRUS 11 B12	3	100	3.5	1.6	17.0	7.2	0.80	0.67	0.0	0.00	6.28	30	331

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient Factor	Vert Ecc (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
193.0	RFS SC2-W100AB	1	85	5.7	2.2	26.4	11.5	1.00	1.00	0.0	0.00	6.28	30	90
193.0	Ericsson AIR 21, 1.3 M, B2A B4	3	182	7.5	4.7	12.0	8.0	0.80	0.71	0.0	0.00	6.28	68	597
193.0	Ericsson AIR 21, 1.3M, B4A B2P	3	181	7.6	4.7	12.1	7.9	0.80	0.70	0.0	0.00	6.28	68	591
191.0	Commscope LNX-6515DS-VTM	3	207	13.6	8.0	11.9	7.1	0.80	0.70	0.0	0.00	6.26	122	650
187.5	Pipe Mount	6	328	4.9	6.0	6.0	6.0	1.00	1.00	0.0	0.00	6.23	155	2148
187.5	Platform	1	1191	90.9	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.23	482	13512
			2											
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	134	4.9	2.2	18.6	6.7	0.80	0.67	0.0	0.00	6.08	41	443
171.9	Alcatel-Lucent ALU 800MHz Exte	3	21	1.0	0.8	8.0	3.0	0.80	0.50	0.0	0.00	6.08	6	67
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	96	2.7	1.6	13.0	8.6	0.80	0.67	0.0	0.00	6.08	22	320
170.3	Catwalk	1	9616	73.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.06	378	10916
167.0	Alcatel-Lucent 4x40W RRH (91 I	3	165	4.1	1.9	13.0	17.3	0.80	0.67	0.0	0.00	6.03	34	549
167.0	RFS APXV9TM14-ALU-I20*	3	148	7.8	4.7	12.6	6.3	0.80	0.66	0.0	0.00	6.03	63	477
167.0	RFS APXVSPP18-C-A20	3	173	9.9	6.0	11.8	7.0	0.80	0.69	0.0	0.00	6.03	84	554
167.0	Generic Flat Light Sector Fram	3	603	28.1	0.0	0.0	0.0	0.75	0.75	0.0	0.00	6.03	243	2049
160.0	Kathrein Scala 860 10025	6	5	0.4	0.6	2.4	2.0	0.80	0.50	0.0	0.00	5.95	5	33
160.0	Ericsson RRUS 8843 B2, B66A	3	113	2.2	1.2	13.2	10.9	0.80	0.50	0.0	0.00	5.95	13	382
160.0	Ericsson RRUS 4426 B66	3	78	2.2	1.3	13.2	5.8	0.80	0.50	0.0	0.00	5.95	13	264
160.0	Ericsson RRUS 4415 B30	3	79	2.4	1.4	13.4	5.9	0.80	0.50	0.0	0.00	5.95	15	264
160.0	Ericsson RRUS 4449 B5, B12	3	114	2.6	1.5	13.2	9.4	0.80	0.50	0.0	0.00	5.95	16	385
160.0	Ericsson RRUS 4478 B14	3	101	2.7	1.5	13.4	8.3	0.80	0.67	0.0	0.00	5.95	22	337
160.0	Ericsson RRUS 32 B2	3	102	3.5	2.3	12.1	7.0	0.80	0.67	0.0	0.00	5.95	29	339
160.0	Raycap DC9-48-60-24-8C-EV	2	103	5.8	2.6	18.3	10.2	0.80	0.75	0.0	0.00	5.95	35	211
160.0	CCI DMP65R-BU6DA	3	252	14.6	5.9	20.7	7.7	0.80	0.63	0.0	0.00	5.95	112	804
160.0	CCI OPA65RBU6DA	3	235	14.7	5.9	21.0	7.8	0.80	0.63	0.0	0.00	5.95	113	742
160.0	Generic Flat Light Sector Fram	3	602	28.0	0.0	0.0	0.0	0.75	0.67	0.0	0.00	5.95	214	2045
155.7	Allgon 7770.00	3	119	6.2	4.6	11.0	5.0	0.80	0.65	0.0	0.00	5.91	49	377
155.1	CCI HPA-65R-BUU-H6	3	198	11.5	6.0	14.8	9.0	0.80	0.69	0.0	0.00	5.90	96	625
155.0	Powerwave Allgon LGP21401	6	31	1.6	1.2	9.2	2.6	0.80	0.50	0.0	0.00	5.90	19	201
146.0	Samsung B2/B66A RRH-BR049	3	127	2.5	1.3	15.0	10.0	0.80	0.50	0.0	0.00	5.80	15	431
146.0	Samsung B5/B13 RRH-BR04C	3	108	2.5	1.3	15.0	8.1	0.80	0.50	0.0	0.00	5.80	15	367
146.0	Commscope TD-850B-LTE78-43	2	88	2.6	1.3	15.3	6.4	0.80	0.50	0.0	0.00	5.80	10	198
146.0	Amphenol Antel BXA-171063-8BF-	1	54	4.0	4.0	6.1	4.1	0.80	1.00	0.0	0.00	5.80	16	56
146.0	Raycap RCMDC-6627-PF-48	1	117	5.0	2.5	16.5	12.6	0.80	0.67	0.0	0.00	5.80	13	123
146.0	Samsung MT6407-77A	3	149	5.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	5.80	41	497
146.0	Generic 48" x 12" Panel	2	105	6.3	4.0	12.0	6.0	0.80	0.75	0.0	0.00	5.80	37	223
146.0	Antel LPA-80063/4CF	2	150	6.8	4.0	15.2	13.2	0.80	0.82	0.0	0.00	5.80	44	307
146.0	JMA Wireless MX06FRO660-03	6	219	11.7	5.9	15.4	10.7	0.80	0.71	0.0	0.00	5.80	197	1389
145.7	Commscope SBNHH-1D65B	6	167	10.1	6.1	11.9	7.1	0.80	0.69	0.0	0.00	5.80	164	1066
145.5	Amphenol Antel BXA-70063-6CF-E	1	115	9.4	5.9	11.2	5.2	0.90	1.00	0.0	0.00	5.79	42	119
145.0	Site Pro 1 VFA12-HD Sector Fra	3	1340	25.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	5.79	188	4463
137.5	Generic Flat Side Arm	1	275	8.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.70	40	313
137.5	Rest Platform	1	748	23.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.70	113	848
137.0	Commscope RDIDC-9181-PF-48	1	59	2.5	1.3	14.0	8.0	0.80	1.00	0.0	0.00	5.70	10	64
137.0	Fujitsu TA08025-B605	3	116	2.6	1.3	15.0	9.1	0.80	0.50	0.0	0.00	5.70	15	394
137.0	Fujitsu TA08025-B604	3	102	2.6	1.3	15.0	7.9	0.80	0.50	0.0	0.00	5.70	15	345
137.0	JMA Wireless MX08FRO665-21	3	234	14.3	6.0	20.0	8.0	0.80	0.64	0.0	0.00	5.70	107	740
137.0	Generic Flat Light Sector Fram	3	598	27.8	0.0	0.0	0.0	0.75	0.75	0.0	0.00	5.70	227	2035
120.0	Generic Flat Side Arm	1	274	8.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.48	39	312
112.5	Generic Flat Side Arm	1	273	8.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.38	38	310
100.0	Generic Flat Side Arm	1	273	8.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.21	37	310
100.0	Platform	1	8007	59.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.21	262	9107
87.5	Rest Platform	1	736	22.9	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.01	98	836
82.0	Generic Round Side Arm	1	245	6.9	0.0	0.0	0.0	1.00	1.00	0.0	0.00	4.92	29	282
80.0	Andrew DB616E-BC	1	152	10.9	19.3	3.5	3.5	1.00	1.00	0.0	0.00	4.88	45	163
50.0	Rest Platform	1	719	22.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	4.27	81	819
Totals		148	59,449	1381.0									4518	66,484

TOWER LOADING

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient Factor	Vert Ecc (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
193.0	Ericsson KRY 112 144/1	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.00	9.05	3	33
193.0	Ericsson RRUS 11 B12	3	51	2.8	1.6	17.0	7.2	0.80	0.67	0.0	0.00	9.05	35	152
193.0	RFS SC2-W100AB	1	22	4.8	2.2	26.4	11.5	1.00	1.00	0.0	0.00	9.05	37	22

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient Factor	Vert Ecc (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
193.0	Ericsson AIR 21, 1.3 M, B2A B4	3	83	6.0	4.7	12.0	8.0	0.80	0.71	0.0	0.00	9.05	79	249
193.0	Ericsson AIR 21, 1.3M, B4A B2P	3	82	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.00	9.05	79	244
191.0	Commscope LNX-6515DS-VTM	3	50	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	9.02	147	151
187.5	Pipe Mount	6	150	3.3	6.0	6.0	6.0	1.00	1.00	0.0	0.00	8.97	151	900
187.5	Platform	1	8000	70.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.97	534	8000
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.67	0.0	0.00	8.76	48	210
171.9	Alcatel-Lucent ALU 800MHz Exte	3	9	0.7	0.8	8.0	3.0	0.80	0.50	0.0	0.00	8.75	6	26
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	53	2.1	1.6	13.0	8.6	0.80	0.67	0.0	0.00	8.75	25	159
170.3	Catwalk	1	6500	55.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.73	408	6500
167.0	Alcatel-Lucent 4x40W RRH (91 I	3	91	3.3	1.9	13.0	17.3	0.80	0.67	0.0	0.00	8.68	39	273
167.0	RFS APXV9TM14-ALU-I20*	3	55	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.00	8.68	74	165
167.0	RFS APXVSP18-C-A20	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.00	8.68	98	171
167.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	8.68	223	1200
160.0	Kathrein Scala 860 10025	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.00	8.57	3	7
160.0	Ericsson RRUS 8843 B2, B66A	3	72	1.6	1.2	13.2	10.9	0.80	0.50	0.0	0.00	8.57	14	216
160.0	Ericsson RRUS 4426 B66	3	48	1.6	1.3	13.2	5.8	0.80	0.50	0.0	0.00	8.57	14	145
160.0	Ericsson RRUS 4415 B30	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.00	8.57	16	138
160.0	Ericsson RRUS 4449 B5, B12	3	71	2.0	1.5	13.2	9.4	0.80	0.50	0.0	0.00	8.57	17	213
160.0	Ericsson RRUS 4478 B14	3	59	2.0	1.5	13.4	8.3	0.80	0.67	0.0	0.00	8.57	24	178
160.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	0.80	0.67	0.0	0.00	8.57	32	159
160.0	Raycap DC9-48-60-24-8C-EV	2	16	4.8	2.6	18.3	10.2	0.80	0.75	0.0	0.00	8.57	42	32
160.0	CCI DMP65R-BU6DA	3	79	12.7	5.9	20.7	7.7	0.80	0.63	0.0	0.00	8.57	140	238
160.0	CCI OPA65RBU6DA	3	60	12.9	5.9	21.0	7.8	0.80	0.63	0.0	0.00	8.57	142	181
160.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	8.57	197	1200
155.7	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.00	8.51	62	105
155.1	CCI HPA-65R-BUU-H6	3	51	9.7	6.0	14.8	9.0	0.80	0.69	0.0	0.00	8.50	116	153
155.0	Powerwave Allgon LGP21401	6	14	1.1	1.2	9.2	2.6	0.80	0.50	0.0	0.00	8.50	19	85
146.0	Samsung B2/B66A RRH-BR049	3	84	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	8.35	16	253
146.0	Samsung B5/B13 RRH-BR04C	3	70	1.9	1.3	15.0	8.1	0.80	0.50	0.0	0.00	8.35	16	211
146.0	Commscope TD-850B-LTE78-43	2	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.00	8.35	11	106
146.0	Amphenol Antel BXA-171063-8BF-	1	11	2.9	4.0	6.1	4.1	0.80	1.00	0.0	0.00	8.35	17	10
146.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	0.67	0.0	0.00	8.35	15	32
146.0	Samsung MT6407-77A	3	82	4.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	8.35	49	245
146.0	Generic 48" x 12" Panel	2	30	5.1	4.0	12.0	6.0	0.80	0.75	0.0	0.00	8.35	43	60
146.0	Antel LPA-80063/4CF	2	20	6.1	4.0	15.2	13.2	0.80	0.82	0.0	0.00	8.35	57	40
146.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	8.35	239	360
145.7	Commscope SBNHH-1D65B	6	51	8.2	6.1	11.9	7.1	0.80	0.69	0.0	0.00	8.35	192	304
145.5	Amphenol Antel BXA-70063-6CF-E	1	17	7.6	5.9	11.2	5.2	0.90	1.00	0.0	0.00	8.34	48	17
145.0	Site Pro 1 VFA12-HD Sector Fra	3	738	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	8.34	154	2214
137.5	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.21	44	188
137.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.21	105	500
137.0	Commscope RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	1.00	0.0	0.00	8.20	10	22
137.0	Fujitsu TA08025-B605	3	75	2.0	1.3	15.0	9.1	0.80	0.50	0.0	0.00	8.20	16	225
137.0	Fujitsu TA08025-B604	3	64	2.0	1.3	15.0	7.9	0.80	0.50	0.0	0.00	8.20	16	192
137.0	JMA Wireless MX08FRO665-21	3	65	12.5	6.0	20.0	8.0	0.80	0.64	0.0	0.00	8.20	134	194
137.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	8.20	211	1200
120.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.90	42	188
112.5	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.75	42	188
100.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.50	40	188
100.0	Platform	1	5500	45.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.50	287	5500
87.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.22	92	500
82.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.08	31	188
80.0	Andrew DB616E-BC	1	51	6.7	19.3	3.5	3.5	1.00	1.00	0.0	0.00	7.03	40	51
50.0	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.15	78	500
Totals		148	35,180	1035.1								4,870	35,180	

TOWER LOADING

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient Factor	K _a Override
10.0	193.0	1/4" Coax	1	0.34	0.06	100	3	Individual	0.00	N	1.00	1.00	0.00
10.0	193.0	1 5/8" Coax	12	1.98	0.82	16	3	Block	0.00	N	1.00	1.00	0.00
10.0	167.0	1 1/4" Hybriflex Cable	3	1.54	1.00	66	4	Individual	0.00	N	1.00	1.00	0.00
10.0	155.0	1 5/8" Coax	6	1.98	0.82	100	3	Individual	0.00	N	1.00	1.00	0.00
10.0	146.0	1 5/8" Coax	4	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
10.0	146.0	1 5/8" Coax	6	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
10.0	80.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
8.3	33.3	Coax Cage	4	12.00	25.00	100	1,2,3,4	Individual	0.00	N	1.00	1.00	0.00
0.0	193.0	1 5/8" (1.63"-41.3mm) Fiber	1	1.63	1.61	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	190.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	187.5	Waveguide	1	2.00	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	187.5	Climbing Ladder	1	2.00	6.90	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	182.0	Waveguide	1	2.00	6.00	100	4	Individual	0.00	N	1.00	1.00	0.00
0.0	176.0	Waveguide	1	2.00	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	172.0	1 1/4" (1.25"- 31.8mm) Fiber	1	1.25	1.05	100	4	Individual	0.00	N	1.00	1.00	0.01
0.0	160.0	0.82" (20.8mm) 8 AWG 6	2	0.82	0.62	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	160.0	Waveguide	1	2.00	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	160.0	0.40" (10.3mm) Fiber	2	0.40	0.09	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	160.0	0.92" (23.4mm) Cable	4	0.92	0.89	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	149.0	1 1/4" (1.25"- 31.8mm) Fiber	1	1.25	1.05	100	None	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	1 5/8" Hybriflex	2	1.98	1.30	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	145.0	Waveguide	1	2.00	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	137.0	1.75" (44.5mm) Hybrid	1	1.75	2.72	100	2	Individual	0.00	N	1.00	1.00	0.00

SECTION FORCES

1.2D + 1.0W Normal
115 mph wind with no ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	2402	0	1668	245	1913
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	2041	0	1545	303	1848
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	3184	0	1897	424	2321
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	3053	0	1981	686	2667
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	4921	0	2254	1322	3575
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	5542	0	2292	1491	3783
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	5742	0	2319	1450	3769
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	13276	0	4672	2762	7434
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	7233	0	2318	1309	3627
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	14847	0	5552	2448	8000
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	16628	0	5112	2468	7580
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	19943	0	5161	2211	7372
														98,813	0			53,889

1.2D + 1.0W 45°
115 mph wind with no ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	2402	0	1986	245	2231
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	2041	0	1776	303	2080
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	3184	0	2161	424	2585
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	3053	0	2243	686	2929
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	4921	0	2496	1322	3818
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	5542	0	2522	1491	4013
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	5742	0	2537	1450	3987
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	13276	0	5078	2762	7840
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	7233	0	2506	1309	3815
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	14847	0	6093	2448	8541
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	16628	0	5579	2468	8047
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	19943	0	5615	2211	7826
														98,813	0			57,713

0.9D + 1.0W Normal
115 mph wind with no ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1801	0	1668	245	1913
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1531	0	1545	303	1848
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2388	0	1897	424	2321
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2290	0	1981	686	2667
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3691	0	2254	1322	3575
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4157	0	2292	1491	3783
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4306	0	2319	1450	3769
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	9957	0	4672	2762	7434
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5425	0	2318	1309	3627
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	11135	0	5552	2448	8000
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	12471	0	5112	2468	7580
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	14957	0	5161	2211	7372
														74,110	0			53,889

0.9D + 1.0W 45°

Gust Response Factor (Gh): 0.85

SECTION FORCES

115 mph wind with no ice

Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1801	0	1986	245	2231
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1531	0	1776	303	2080
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2388	0	2161	424	2585
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2290	0	2243	686	2929
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3691	0	2496	1322	3818
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4157	0	2522	1491	4013
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4306	0	2537	1450	3987
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	9957	0	5078	2762	7840
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5425	0	2506	1309	3815
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	11135	0	6093	2448	8541
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	12471	0	5579	2468	8047
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	14957	0	5615	2211	7826
														74,110	0			57,713

1.2D + 1.0Di + 1.0Wi Normal
50 mph wind with 1" radial ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Ice Importance Factor: 1.00
Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.00	1.00	1.2	32.01	75.92	10.27	4850	2448	399	100	500
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.00	1.00	1.2	29.63	75.96	10.75	4304	2263	394	127	521
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.00	1.00	1.2	35.37	94.06	12.28	6320	3136	480	186	667
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.00	1.00	1.2	37.05	100.46	12.83	6465	3413	504	358	862
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.00	1.00	1.2	39.97	117.26	13.15	10490	5568	576	716	1292
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.00	1.00	1.1	41.09	123.05	13.49	11533	5991	588	813	1401
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.00	1.00	1.1	42.21	128.62	13.83	11847	6106	598	795	1393
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.00	1.00	1.1	87.82	273.23	28.59	25907	12631	1209	1520	2729
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.00	1.00	1.1	45.55	144.14	14.71	13684	6451	601	721	1322
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.00	1.00	1.1	105.24	329.86	23.06	28107	13260	1276	1326	2602
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.00	1.00	1.0	109.21	348.60	22.69	30341	13714	1165	1259	2424
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.00	1.00	0.9	113.62	367.72	21.05	32322	12379	1152	1033	2186
														186,171	87,358			17,899

1.2D + 1.0Di + 1.0Wi 45°
50 mph wind with 1" radial ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Ice Importance Factor: 1.00
Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.20	1.20	1.2	38.41	91.11	10.27	4850	2448	479	100	580
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.20	1.20	1.2	35.56	91.15	10.75	4304	2263	473	127	600
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.20	1.20	1.2	42.44	112.87	12.28	6320	3136	577	186	763
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.20	1.20	1.2	44.46	120.55	12.83	6465	3413	605	358	963
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.16	1.16	1.2	46.29	135.81	13.15	10490	5568	667	716	1383
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.15	1.15	1.1	47.14	141.19	13.49	11533	5991	675	813	1488
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.14	1.14	1.1	48.06	146.43	13.83	11847	6106	681	795	1476
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.13	1.13	1.1	99.04	308.13	28.59	25907	12631	1363	1520	2883
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.12	1.12	1.1	50.97	161.29	14.71	13684	6451	673	721	1394
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.12	1.12	1.1	118.29	370.75	23.06	28107	13260	1434	1326	2760
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.11	1.11	1.0	121.73	388.54	22.69	30341	13714	1299	1259	2558
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.11	1.11	0.9	125.84	407.26	21.05	32322	12379	1276	1033	2310
														186,171	87,358			19,157

1.0D + 1.0W Service Normal
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
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SECTION FORCES

#	(ft)	(psf)	(sf)	(sf)	(sf)	(in)	(sf)	(sf)	(sf)	(lb)	(lb)	(lb)	(lb)					
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	2002	0	454	67	521
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1701	0	421	83	503
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2653	0	516	115	632
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2544	0	539	187	726
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	4101	0	613	360	973
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4618	0	624	406	1030
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4785	0	631	395	1026
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	11064	0	1272	752	2024
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	6028	0	631	356	987
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	12373	0	1511	666	2178
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	13857	0	1392	727	2119
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	16619	0	1405	686	2091
													82,344	0	14,809			

1.0D + 1.0W Service 45°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Qz (psf)	Af (sf)	Ar (sf)	Ice Ar (sf)	e	Cf	Df	Df	Tiz (in)	Ae (sf)	EPAa (sf)	EPAAi (sf)	Wt. (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	2002	0	541	67	607
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1701	0	484	83	566
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2653	0	588	115	704
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2544	0	611	187	797
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	4101	0	679	360	1039
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4618	0	686	406	1092
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4785	0	691	395	1085
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	11064	0	1382	752	2134
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	6028	0	682	356	1039
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	12373	0	1659	666	2325
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	13857	0	1519	727	2246
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	16619	0	1528	686	2215
															82,344	0	15,850	

EQUIVALENT LATERAL FORCE METHOD

Spectral Response Acceleration for Short Period (S_S):	0.22
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.24
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_s :	0.04
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	0.68
Redundancy Factor (ρ):	1.30
Seismic Force Distribution Exponent (k):	1.09
Total Unfactored Dead Load:	117.52 k
Seismic Base Shear (E):	6.74 k

SEISMIC

Load Case: 0.9D - 1.0Ev + 1.0Eh

Seismic

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
12	183.21	2,002	581,555	0.032	218	1,706
11	174.63	1,701	469,132	0.026	176	1,450
10	165.26	2,653	689,051	0.038	258	2,261
9	155.08	2,544	616,543	0.034	231	2,168
8	143.75	4,101	915,079	0.051	343	3,495
7	131.25	4,618	933,334	0.052	350	3,936
6	118.75	4,785	867,163	0.048	325	4,078
5	100.00	11,064	1,663,001	0.092	623	9,429
4	81.25	6,028	722,762	0.040	271	5,137
3	62.50	12,373	1,114,997	0.062	418	10,544
2	37.50	13,857	716,118	0.040	268	11,809
1	12.50	16,619	259,776	0.014	97	14,163
Ericsson KRY 112 144/1	187.50	33	9,833	0.000	4	28
Ericsson RRUS 11 B12	187.50	152	45,320	0.002	17	130
RFS SC2-W100AB	187.50	22	6,555	0.000	2	19
Ericsson AIR 21, 1.3 M, B2A B4P	187.50	249	74,192	0.004	28	212
Ericsson AIR 21, 1.3M, B4A B2P	187.50	244	72,851	0.004	27	208
Commscope LNX-6515DS-VTM	187.50	151	44,962	0.002	17	129
Pipe Mount	187.50	900	268,164	0.015	100	767
Platform	187.50	8,000	2,383,681	0.132	893	6,818
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	172.50	210	57,143	0.003	21	179
Alcatel-Lucent ALU 800MHz External Notch Filter	171.90	26	7,156	0.000	3	22
Alcatel-Lucent 2X50W RRH w/o Filter	171.90	159	43,101	0.002	16	136
Catwalk	170.30	6,500	1,744,162	0.097	653	5,539
Alcatel-Lucent 4x40W RRH (91 lb)	167.00	273	71,711	0.004	27	233
RFS APXV9TM14-ALU-I20*	167.00	165	43,421	0.002	16	141
RFS APXVSP18-C-A20	167.00	171	44,918	0.002	17	146
Generic Flat Light Sector Frame	167.00	1,200	315,213	0.018	118	1,023
Kathrein Scala 860 10025	160.00	7	1,805	0.000	1	6
Ericsson RRUS 8843 B2, B66A	160.00	216	54,155	0.003	20	184
Ericsson RRUS 4426 B66	160.00	145	36,404	0.002	14	124

Ericsson RRUS 4415 B30	160.00	138	34,599	0.002	13	118
Ericsson RRUS 4449 B5, B12	160.00	213	53,402	0.003	20	182
Ericsson RRUS 4478 B14	160.00	178	44,677	0.002	17	152
Ericsson RRUS 32 B2	160.00	159	39,864	0.002	15	136
Raycap DC9-48-60-24-8C-EV	160.00	32	8,023	0.000	3	27
CCI DMP65R-BU6DA	160.00	238	59,720	0.003	22	203
CCI OPA65RBU6DA	160.00	181	45,279	0.002	17	154
Generic Flat Light Sector Frame	160.00	1,200	300,858	0.017	113	1,023
Allgon 7770.00	155.70	105	25,556	0.001	10	89
CCI HPA-65R-BUU-H6	155.10	153	37,082	0.002	14	130
Powerwave Allgon LGP21401	155.00	85	20,490	0.001	8	72
Samsung B2/B66A RRH-BR049	146.00	253	57,459	0.003	22	216
Samsung B5/B13 RRH-BR04C	146.00	211	47,860	0.003	18	180
Commscope TD-850B-LTE78-43	146.00	106	24,055	0.001	9	90
Amphenol Antel BXA-171063-8BF-EDIN-X	146.00	10	2,383	0.000	1	9
Raycap RCMDC-6627-PF-48	146.00	32	7,262	0.000	3	27
Samsung MT6407-77A	146.00	245	55,553	0.003	21	209
Generic 48" x 12" Panel	146.00	60	13,616	0.001	5	51
Antel LPA-80063/4CF	146.00	40	9,077	0.000	3	34
JMA Wireless MX06FRO660-03	146.00	360	81,695	0.004	31	307
Commscope SBNHH-1D65B	145.70	304	68,878	0.004	26	259
Amphenol Antel BXA-70063-6CF-EDIN-X	145.50	17	3,843	0.000	1	14
Site Pro 1 VFA12-HD Sector Frame	145.00	2,214	498,749	0.028	187	1,887
Generic Flat Side Arm	137.50	188	39,860	0.002	15	160
Rest Platform	137.50	500	106,294	0.006	40	426
Commscope RDIDC-9181-PF-48	137.00	22	4,637	0.000	2	19
Fujitsu TA08025-B605	137.00	225	47,643	0.003	18	192
Fujitsu TA08025-B604	137.00	192	40,592	0.002	15	163
JMA Wireless MX08FRO665-21	137.00	194	40,973	0.002	15	165
Generic Flat Light Sector Frame	137.00	1,200	254,096	0.014	95	1,023
Generic Flat Side Arm	120.00	188	34,371	0.002	13	160
Generic Flat Side Arm	112.50	188	32,039	0.002	12	160
Generic Flat Side Arm	100.00	188	28,184	0.002	11	160
Platform	100.00	5,500	826,722	0.046	310	4,687
Rest Platform	87.50	500	64,989	0.004	24	426
Generic Round Side Arm	82.00	188	22,708	0.001	9	160
Andrew DB616E-BC	80.00	51	6,013	0.000	2	43
Rest Platform	50.00	500	35,342	0.002	13	426
Totals						
		117,524	17,997,703	1.000	6,740	100,156

SEISMIC

Load Case: 1.2D + 1.0Ev + 1.0Eh

Seismic

Section	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vz}	Horizontal Force (lb)	Vertical Force (lb)
12	183.21	2,002	581,555	0.032	218	2,498
11	174.63	1,701	469,132	0.026	176	2,123
10	165.26	2,653	689,051	0.038	258	3,311
9	155.08	2,544	616,543	0.034	231	3,174
8	143.75	4,101	915,079	0.051	343	5,117
7	131.25	4,618	933,334	0.052	350	5,763
6	118.75	4,785	867,163	0.048	325	5,970
5	100.00	11,064	1,663,001	0.092	623	13,805
4	81.25	6,028	722,762	0.040	271	7,521
3	62.50	12,373	1,114,997	0.062	418	15,438
2	37.50	13,857	716,118	0.040	268	17,290
1	12.50	16,619	259,776	0.014	97	20,737
Ericsson KRY 112 144/1	187.50	33	9,833	0.000	4	41
Ericsson RRUS 11 B12	187.50	152	45,320	0.002	17	190
RFS SC2-W100AB	187.50	22	6,555	0.000	2	27
Ericsson AIR 21, 1.3 M, B2A B4P	187.50	249	74,192	0.004	28	311
Ericsson AIR 21, 1.3M, B4A B2P	187.50	244	72,851	0.004	27	305
Commscope LNX-6515DS-VTM	187.50	151	44,962	0.002	17	188
Pipe Mount	187.50	900	268,164	0.015	100	1,123
Platform	187.50	8,000	2,383,681	0.132	893	9,982
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	172.50	210	57,143	0.003	21	262
Alcatel-Lucent ALU 800MHz External Notch Filter	171.90	26	7,156	0.000	3	33
Alcatel-Lucent 2X50W RRH w/o Filter	171.90	159	43,101	0.002	16	198
Catwalk	170.30	6,500	1,744,162	0.097	653	8,111

Alcatel-Lucent 4x40W RRH (91 lb)	167.00	273	71,711	0.004	27	341
RFS APXV9TM14-ALU-I20*	167.00	165	43,421	0.002	16	206
RFS APXVSP18-C-A20	167.00	171	44,918	0.002	17	213
Generic Flat Light Sector Frame	167.00	1,200	315,213	0.018	118	1,497
Kathrein Scala 860 10025	160.00	7	1,805	0.000	1	9
Ericsson RRUS 8843 B2, B66A	160.00	216	54,155	0.003	20	270
Ericsson RRUS 4426 B66	160.00	145	36,404	0.002	14	181
Ericsson RRUS 4415 B30	160.00	138	34,599	0.002	13	172
Ericsson RRUS 4449 B5, B12	160.00	213	53,402	0.003	20	266
Ericsson RRUS 4478 B14	160.00	178	44,677	0.002	17	222
Ericsson RRUS 32 B2	160.00	159	39,864	0.002	15	198
Raycap DC9-48-60-24-8C-EV	160.00	32	8,023	0.000	3	40
CCI DMP65R-BU6DA	160.00	238	59,720	0.003	22	297
CCI OPA65RBU6DA	160.00	181	45,279	0.002	17	225
Generic Flat Light Sector Frame	160.00	1,200	300,858	0.017	113	1,497
Allgon 7770.00	155.70	105	25,556	0.001	10	131
CCI HPA-65R-BUU-H6	155.10	153	37,082	0.002	14	191
Powerwave Allgon LGP21401	155.00	85	20,490	0.001	8	106
Samsung B2/B66A RRH-BR049	146.00	253	57,459	0.003	22	316
Samsung B5/B13 RRH-BR04C	146.00	211	47,860	0.003	18	263
Commscope TD-850B-LTE78-43	146.00	106	24,055	0.001	9	132
Amphenol Antel BXA-171063-8BF-EDIN-X	146.00	10	2,383	0.000	1	13
Raycap RCMDC-6627-PF-48	146.00	32	7,262	0.000	3	40
Samsung MT6407-77A	146.00	245	55,553	0.003	21	305
Generic 48" x 12" Panel	146.00	60	13,616	0.001	5	75
Antel LPA-80063/4CF	146.00	40	9,077	0.000	3	50
JMA Wireless MX06FRO660-03	146.00	360	81,695	0.004	31	449
Commscope SBNHH-1D65B	145.70	304	68,878	0.004	26	380
Amphenol Antel BXA-70063-6CF-EDIN-X	145.50	17	3,843	0.000	1	21
Site Pro 1 VFA12-HD Sector Frame	145.00	2,214	498,749	0.028	187	2,763
Generic Flat Side Arm	137.50	188	39,860	0.002	15	234
Rest Platform	137.50	500	106,294	0.006	40	624
Commscope RDIDC-9181-PF-48	137.00	22	4,637	0.000	2	27
Fujitsu TA08025-B605	137.00	225	47,643	0.003	18	281
Fujitsu TA08025-B604	137.00	192	40,592	0.002	15	239
JMA Wireless MX08FRO665-21	137.00	194	40,973	0.002	15	241
Generic Flat Light Sector Frame	137.00	1,200	254,096	0.014	95	1,497
Generic Flat Side Arm	120.00	188	34,371	0.002	13	234
Generic Flat Side Arm	112.50	188	32,039	0.002	12	234
Generic Flat Side Arm	100.00	188	28,184	0.002	11	234
Platform	100.00	5,500	826,722	0.046	310	6,863
Rest Platform	87.50	500	64,989	0.004	24	624
Generic Round Side Arm	82.00	188	22,708	0.001	9	234
Andrew DB616E-BC	80.00	51	6,013	0.000	2	64
Rest Platform	50.00	500	35,342	0.002	13	624
Totals		117,524	17,997,703	1.000	6,740	146,645

FORCE/STRESS SUMMARY

Section 1 – Base 0.0 (ft) and Height 25.00 (ft)

Max Compression	Pu		Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z								
L SAE - 8X8X0.875	-192.45	1.2D + 1.0W 45°	25.098	33	33	33	63.30	36.0	416.27	0.00	0.00	0	0	46 Member Z
H DAL - 3X2.5X0.3125	-9.77	1.2D + 1.0W N	14.66	100	100	17	171.66	36.0	31.47	0.00	0.00	0	0	31 Member X
D DAS - 3.5X3X0.25	-20.81	1.2D + 1.0W N	29.843	33	66	8	145.04	36.0	42.58	0.00	0.00	0	0	48 Member Y

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)	Load Case										
L SAE - 8X8X0.875	136.19	0.9D + 1.0W 45°	36.0	58	428.65	0.00	0.00		0	0	31	Member
H DAL - 3X2.5X0.3125	10.54	1.2D + 1.0W N	36.0	58	104.98	0.00	0.00	0.00	0	0	10	Member
D DAS - 3.5X3X0.25	18.31	1.2D + 1.0W N	36.0	58	101.41	0.00	0.00	0.00	0	0	18	Member

Max Splice Forces	Pu		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
	(kip)	Load Case				
Top Tension	135.30	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	160.26	0.9D + 1.0W 45°	565.10	8	4	2.25" A36
Bot Compression	219.51	1.2D + 1.0W 45°	467.67	52	0	

Section 2 – Base 25.0 (ft) and Height 25.00 (ft)

Max Compression	Pu		Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z								
L SAE - 8X8X0.75	-161.80	1.2D + 1.0W 45°	25.098	33	33	33	62.90	36.0	360.60	0.00	0.00	0	0	44 Member Z
H DAL - 3X2.5X0.25	-9.52	1.2D + 1.0W N	13.097	100	100	17	155.33	36.0	31.20	0.00	0.00	0	0	30 Member X
D DAS - 3X2.5X0.25	-22.44	1.2D + 1.0W N	29.023	33	65	8	156.72	36.0	30.65	0.00	0.00	0	0	73 Member Y

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)	Load Case										
L SAE - 8X8X0.75	112.16	0.9D + 1.0W 45°	36.0	58	370.66	0.00	0.00		0	0	30	Member
H DAL - 3X2.5X0.25	10.02	1.2D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00	0	0	11	Member
D DAS - 3X2.5X0.25	20.03	1.2D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00	0	0	23	Member

Max Splice Forces	Pu		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
	(kip)	Load Case				
Top Tension	111.29	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	135.30	0.9D + 1.0W 45°	0.00	0	0	

Section 3 – Base 50.0 (ft) and Height 25.00 (ft)

Max Compression	Pu		Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z								
L SAE - 8X8X0.75	-129.98	1.2D + 1.0W 45°	25.098	33	33	33	62.90	36.0	360.60	0.00	0.00	0	0	36 Member Z
H DAE - 2.5X2.5X0.25	-8.72	0.9D + 1.0W N	11.534	100	100	17	165.75	36.0	24.80	0.00	0.00	0	0	35 Member X
D DAS - 3X2.5X0.25	-22.49	1.2D + 1.0W N	28.266	33	66	8	155.01	36.0	31.33	0.00	0.00	0	0	71 Member Y

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)	Load Case										
L SAE - 8X8X0.75	87.54	0.9D + 1.0W 45°	36.0	58	370.66	0.00	0.00		0	0	23	Member
H DAE - 2.5X2.5X0.25	9.20	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	11	Member
D DAS - 3X2.5X0.25	20.63	0.9D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00	0	0	24	Member

Max Splice Forces	Pu		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
	(kip)	Load Case				
Top Tension	86.76	0.9D + 1.0W 45°	0.00	0	0	

FORCE/STRESS SUMMARY

Bot Tension 111.29 0.9D + 1.0W 45° 0.00 0 0

Section 4 – Base 75.0 (ft) and Height 12.50 (ft)

Max Compression	Pu		Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear		Bear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z			Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)						
L SAE - 6X6X0.875	-113.87	1.2D + 1.0W 45°	12.549	50	50	50	64.35	36.0	304.67	0.00	0.00	0	0	37	Member Z	
H DAE - 2.5X2.5X0.25	-7.84	0.9D + 1.0W N	10.752	100	100	20	156.45	36.0	27.83	0.00	0.00	0	0	28	Member X	
D DAE - 2.5X2.5X0.25	-13.15	1.2D + 1.0W N	17.026	50	100	12	167.07	36.0	24.41	0.00	0.00	0	0	53	Member Y	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case						Φ _t P _n (kip)	Φ _t P _n (kip)				
L SAE - 6X6X0.875	76.30	0.9D + 1.0W 45°	36.0	58	315.25	0.00	0.00	0.00	0.00	0	0	24	Member
H DAE - 2.5X2.5X0.25	8.28	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0.00	0	0	10	Member
D DAE - 2.5X2.5X0.25	11.92	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0.00	0	0	15	Member

Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
Top Tension	75.60	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	86.76	0.9D + 1.0W 45°	0.00	0	0	

Section 5 – Base 87.5 (ft) and Height 25.00 (ft)

Max Compression	Pu		Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear		Bear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z			Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)						
L SAE - 6X6X0.75	-98.44	1.2D + 1.0W 45°	12.549	50	50	50	64.35	36.0	264.27	0.00	0.00	0	0	37	Member Z	
H DAE - 2.5X2.5X0.25	-7.43	1.2D + 1.0W N	9.971	100	100	20	147.16	36.0	31.46	0.00	0.00	0	0	23	Member X	
D DAE - 2.5X2.5X0.25	-12.89	1.2D + 1.0W N	16.507	50	100	12	162.80	36.0	25.70	0.00	0.00	0	0	50	Member Y	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case						Φ _t P _n (kip)	Φ _t P _n (kip)				
L SAE - 6X6X0.75	64.27	0.9D + 1.0W 45°	36.0	58	273.46	0.00	0.00	0.00	0.00	0	0	23	Member
H DAE - 2.5X2.5X0.25	7.71	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0.00	0	0	9	Member
D DAE - 2.5X2.5X0.25	11.79	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0.00	0	0	15	Member

Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
Top Tension	52.87	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	75.60	0.9D + 1.0W 45°	0.00	0	0	

Section 6 – Base 112.5 (ft) and Height 12.50 (ft)

Max Compression	Pu		Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear		Bear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z			Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)						
L SAE - 6X6X0.5625	-66.55	1.2D + 1.0W 45°	12.549	50	50	50	63.81	36.0	201.85	0.00	0.00	0	0	32	Member Z	
H DAE - 2.5X2.5X0.25	-6.38	1.2D + 1.0W N	8.408	100	100	25	128.58	36.0	41.21	0.00	0.00	0	0	15	Member X	
D DAL - 2.5X2X0.25	-12.30	1.2D + 1.0W N	15.534	50	100	12	188.07	36.0	17.24	0.00	0.00	0	0	71	Member Y	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case						Φ _t P _n (kip)	Φ _t P _n (kip)				
L SAE - 6X6X0.5625	41.02	0.9D + 1.0W 45°	36.0	58	208.33	0.00	0.00	0.00	0.00	0	0	19	Member
H DAE - 2.5X2.5X0.25	6.69	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0.00	0	0	8	Member
D DAL - 2.5X2X0.25	11.41	1.2D + 1.0W N	36.0	58	69.01	0.00	0.00	0.00	0.00	0	0	16	Member

Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
Top Tension	40.45	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	52.87	0.9D + 1.0W 45°	0.00	0	0	

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Section 7 – Base 125.0 (ft) and Height 12.50 (ft)

Max Compression	Pu		Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Shear		Bear		Use Controls
	(kip)	Load Case		X	Y	Z						# Bolt	# Hole			
L SAE - 6X6X0.5625	-51.13	1.2D + 1.0W 45°	12.549	50	50	50	63.81	36.0	201.85	0.00	0.00	0	0	25	Member Z	
H DAE - 2.5X2.5X0.25	-6.14	1.2D + 1.0W N	7.626	100	120	25	119.01	36.0	47.52	0.00	0.00	0	0	12	Member X	
D DAL - 2.5X2X0.25	-12.34	1.2D + 1.0W N	15.085	50	100	12	183.42	36.0	18.12	0.00	0.00	0	0	68	Member Y	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)	Shear		Bear		Use Controls
	(kip)	Load Case							# Bolt	# Hole			
L SAE - 6X6X0.5625	28.05	0.9D + 1.0W 45°	36.0	58	208.33	0.00	0.00	0.00	0	0	13	Member	
H DAE - 2.5X2.5X0.25	6.27	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	8	Member	
D DAL - 2.5X2X0.25	11.50	1.2D + 1.0W N	36.0	58	69.01	0.00	0.00	0.00	0	0	16	Member	

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Top Tension	27.50	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	40.45	0.9D + 1.0W 45°	0.00	0	0	

Section 8 – Base 137.5 (ft) and Height 12.50 (ft)

Max Compression	Pu		Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Shear		Bear		Use Controls
	(kip)	Load Case		X	Y	Z						# Bolt	# Hole			
L SAE - 6X6X0.4375	-35.66	1.2D + 1.0W 45°	12.549	50	50	50	63.27	36.0	159.23	0.00	0.00	0	0	22	Member Z	
H DAE - 2.5X2.5X0.25	-4.68	1.2D + 1.0W N	6.845	100	107	25	106.81	36.0	54.94	0.00	0.00	0	0	8	Member X	
D DAL - 2.5X2X0.25	-11.29	1.2D + 1.0W N	14.664	50	100	12	179.07	36.0	19.01	0.00	0.00	0	0	59	Member Y	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)	Shear		Bear		Use Controls
	(kip)	Load Case							# Bolt	# Hole			
L SAE - 6X6X0.4375	16.31	0.9D + 1.0W 45°	36.0	58	163.94	0.00	0.00	0.00	0	0	9	Member	
H DAE - 2.5X2.5X0.25	5.84	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	7	Member	
D DAL - 2.5X2X0.25	10.57	1.2D + 1.0W N	36.0	58	69.01	0.00	0.00	0.00	0	0	15	Member	

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Top Tension	15.79	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	27.50	0.9D + 1.0W 45°	0.00	0	0	

Section 9 – Base 150.0 (ft) and Height 10.17 (ft)

Max Compression	Pu		Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Shear		Bear		Use Controls
	(kip)	Load Case		X	Y	Z						# Bolt	# Hole			
L SAE - 5X5X0.4375	-26.86	1.2D + 1.0W 45°	10.206	50	50	50	62.11	36.0	132.23	0.00	0.00	0	0	20	Member Z	
H SAU - 3X2.5X0.25	-0.88	0.9D + 1.0W N	12.418	50	100	50	167.91	36.0	13.30	0.00	0.00	0	0	6	Member Y	
D SAE - 3.5x3.5x0.25	-5.95	1.2D + 1.0W N	16.558	50	50	50	138.63	36.0	25.17	0.00	0.00	0	0	23	Member Z	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)	Shear		Bear		Use Controls
	(kip)	Load Case							# Bolt	# Hole			
L SAE - 5X5X0.4375	13.02	0.9D + 1.0W 45°	36.0	58	135.43	0.00	0.00	0.00	0	0	9	Member	
H SAU - 3X2.5X0.25	2.08	1.2D + 1.0W N	36.0	58	42.44	0.00	0.00	0.00	0	0	4	Member	
D SAE - 3.5x3.5x0.25	4.43	0.9D + 1.0W N	36.0	58	54.76	0.00	0.00	0.00	0	0	8	Member	

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Top Tension	8.22	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	15.79	0.9D + 1.0W 45°	0.00	0	0	

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Section 10 – Base 160.2 (ft) and Height 10.17 (ft)

Max Compression	Pu		Len (ft)	Bracing %				F _y (ksi)	Shear		Bear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z	KL/R		Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)					
L SAE - 5X5X0.4375	-17.35	1.2D + 1.0W 45°	10.206	50	50	50	62.11	36.0	132.23	0.00	0.00	0	0	13	Member Z	
H DAL - 3X2.5X0.25	-0.35	1.2D + 1.0W N	11.147	50	100	50	172.39	36.0	25.33	0.00	0.00	0	0	1	Member Y	
D SAE - 3.5x3.5x0.25	-4.59	1.2D + 1.0W N	15.576	50	50	50	132.10	36.0	27.72	0.00	0.00	0	0	16	Member Z	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear		Bear		Blk Shear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case				ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)							
L SAE - 5X5X0.4375	6.32	0.9D + 1.0W 45°	36.0	58	135.43	0.00	0.00					0	0	4	Member
H DAL - 3X2.5X0.25	1.23	1.2D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00				0	0	1	Member
D SAE - 3.5x3.5x0.25	3.01	1.2D + 1.0W N	36.0	58	54.76	0.00	0.00	0.00				0	0	5	Member

Max Splice Forces	Pu		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
	(kip)	Load Case				
Top Tension	2.06	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	8.22	0.9D + 1.0W 45°	0.00	0	0	

Section 11 – Base 170.3 (ft) and Height 8.58 (ft)

Max Compression	Pu		Len (ft)	Bracing %				F _y (ksi)	Shear		Bear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z	KL/R		Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)					
L SAE - 5X5X0.3125	-8.85	1.2D + 1.0W 45°	8.617	50	50	50	52.01	35.9	99.52	0.00	0.00	0	0	8	Member Z	
H SAU - 3X2.5X0.25	-0.01	1.2D + 1.0W N	10.074	50	100	50	144.93	36.0	17.85	0.00	0.00	0	0	0	Member Y	
D SAE - 3X3X0.25	-2.65	1.2D + 1.0W N	13.658	50	50	50	134.08	36.0	22.93	0.00	0.00	0	0	11	Member Z	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear		Bear		Blk Shear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case				ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)							
L SAE - 5X5X0.3125	2.00	1.2D + 1.0W 45°	36.0	58	98.17	0.00	0.00					0	0	2	Member
H SAU - 3X2.5X0.25	0.80	1.2D + 1.0W N	36.0	58	42.44	0.00	0.00	0.00				0	0	1	Member
D SAE - 3X3X0.25	1.72	1.2D + 1.0W N	36.0	58	46.66	0.00	0.00	0.00				0	0	3	Member

Max Splice Forces	Pu		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
	(kip)	Load Case				
Top Tension	0.57	0.9D + 1.0W 45°	0.00	0	0	
Bot Tension	2.06	0.9D + 1.0W 45°	0.00	0	0	

Section 12 – Base 178.9 (ft) and Height 8.58 (ft)

Max Compression	Pu		Len (ft)	Bracing %				F _y (ksi)	Shear		Bear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case		X	Y	Z	KL/R		Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)					
L SAE - 5X5X0.3125	-5.03	1.2D + 1.0Di + 1.0Wi N	8.617	50	50	50	52.01	35.9	99.52	0.00	0.00	0	0	5	Member Z	
H CHN - C8 x 11.5	-0.03	1.2D + 1.0W N	9.001	100	100	100	160.28	36.0	37.66	0.00	0.00	0	0	0	Member Y	
D SAE - 3X3X0.25	-2.39	1.2D + 1.0W N	12.842	50	50	50	127.78	36.0	25.24	0.00	0.00	0	0	9	Member Z	

Max Tension Member	Pu		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear		Bear		Blk Shear		# Bolt	# Hole	Use %	Controls
	(kip)	Load Case				ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)							
H CHN - C8 x 11.5	0.11	1.2D + 1.0W N	36.0	58	109.51	0.00	0.00	0.00				0	0	0	Member
D SAE - 3X3X0.25	1.40	1.2D + 1.0W N	36.0	58	46.66	0.00	0.00	0.00				0	0	3	Member

Max Splice Forces	Pu		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
	(kip)	Load Case				
Bot Tension	0.57	0.9D + 1.0W 45°	0.00	0	0	

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					*Fx (kip)	*Fy (kip)	*Fz (kip)
1.2D + 1.0W Normal	22.94	0.00	45	1	-10.17	159.05	-20.62
	22.94	0.00	135	1a	4.99	-87.86	-15.52
	22.94	0.00	225	1b	-5.25	-88.53	-15.31
	22.94	0.00	315	1c	10.43	158.36	-20.32
1.2D + 1.0W 45°	22.94	0.00	45	1	-21.43	219.38	-21.83
	22.94	0.00	135	1a	-10.41	35.93	-5.18
	22.94	0.00	225	1b	-16.75	-148.85	-16.44
	22.94	0.00	315	1c	-4.86	34.56	-10.01
0.9D + 1.0W Normal	22.94	0.00	45	1	-9.53	150.15	-19.96
	22.94	0.00	135	1a	5.64	-96.75	-16.17
	22.94	0.00	225	1b	-5.89	-97.26	-15.95
	22.94	0.00	315	1c	9.78	149.63	-19.68
0.9D + 1.0W 45°	22.94	0.00	45	1	-20.78	210.44	-21.17
	22.94	0.00	135	1a	-9.76	26.95	-5.83
	22.94	0.00	225	1b	-17.40	-157.54	-17.07
	22.94	0.00	315	1c	-5.51	25.92	-9.37
1.2D + 1.0Di + 1.0Wi Normal	22.94	0.00	45	1	-6.87	101.10	-10.24
	22.94	0.00	135	1a	-2.27	26.54	-1.03
	22.94	0.00	225	1b	2.21	25.25	-1.05
	22.94	0.00	315	1c	6.93	99.77	-10.09
1.2D + 1.0Di + 1.0Wi 45°	22.94	0.00	45	1	-10.43	119.89	-10.60
	22.94	0.00	135	1a	-7.06	64.46	2.16
	22.94	0.00	225	1b	-1.40	6.47	-1.39
	22.94	0.00	315	1c	2.17	61.84	-6.89
1.2D + 1.0Ev + 1.0Eh Normal	22.94	0.00	45	1	-3.60	49.48	-4.36
	22.94	0.00	135	1a	-1.78	20.39	1.02
	22.94	0.00	225	1b	1.78	20.39	1.02
	22.94	0.00	315	1c	3.60	49.48	-4.36
1.2D + 1.0Ev + 1.0Eh 45°	22.94	0.00	45	1	-4.51	55.50	-4.51
	22.94	0.00	135	1a	-3.23	34.93	2.15
	22.94	0.00	225	1b	0.87	14.37	0.87
	22.94	0.00	315	1c	2.15	34.93	-3.23
0.9D - 1.0Ev + 1.0Eh Normal	22.94	0.00	45	1	-2.75	38.39	-3.51
	22.94	0.00	135	1a	-0.93	9.33	0.17
	22.94	0.00	225	1b	0.93	9.33	0.17
	22.94	0.00	315	1c	2.75	38.39	-3.51
0.9D - 1.0Ev + 1.0Eh 45°	22.94	0.00	45	1	-3.66	44.41	-3.66
	22.94	0.00	135	1a	-2.38	23.86	1.30
	22.94	0.00	225	1b	0.01	3.31	0.01
	22.94	0.00	315	1c	1.30	23.86	-2.38
1.0D + 1.0W Service Normal	22.94	0.00	45	1	-4.21	63.10	-7.12
	22.94	0.00	135	1a	-0.10	-3.77	-2.78
	22.94	0.00	225	1b	0.03	-4.33	-2.75
	22.94	0.00	315	1c	4.28	62.52	-7.02
1.0D + 1.0W Service 45°	22.94	0.00	45	1	-7.31	79.53	-7.44
	22.94	0.00	135	1a	-4.32	29.94	0.03
	22.94	0.00	225	1b	-3.10	-20.76	-3.04
	22.94	0.00	315	1c	0.09	28.81	-4.18

Max Uplift: 157.54 (kip) Moment Ice: 2602.87 (kip-ft) Moment: 8448.32 (kip-ft)
 Max Down: 219.38 (kip) Total Down Ice: 252.66 (kip) Total Down: 141.03 (kip)
 Max Shear: 30.59 (kip) Total Shear Ice: 23.65 (kip) Total Shear: 75.59(kip)
 1.2D + 1.0W 45°

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W Normal 115 mph wind with no ice	50.00	0.0419	0.0051	0.0798	0.08
1.2D + 1.0W Normal 115 mph wind with no ice	75.00	0.0819	0.0060	0.0952	0.0954
1.2D + 1.0W Normal 115 mph wind with no ice	87.50	0.103	0.0063	0.1001	0.1003
1.2D + 1.0W Normal 115 mph wind with no ice	100.00	0.1267	0.0072	0.1142	0.1144
1.2D + 1.0W Normal 115 mph wind with no ice	112.50	0.153	0.0080	0.1260	0.1263
1.2D + 1.0W Normal 115 mph wind with no ice	125.00	0.1825	0.0090	0.1417	0.142
1.2D + 1.0W Normal 115 mph wind with no ice	137.50	0.2149	0.0097	0.1531	0.1534
1.2D + 1.0W Normal 115 mph wind with no ice	150.00	0.2491	0.0098	0.1562	0.1565
1.2D + 1.0W Normal 115 mph wind with no ice	160.17	0.2768	-0.0100	0.1576	0.1579
1.2D + 1.0W Normal 115 mph wind with no ice	170.33	0.3049	-0.0102	0.1610	0.1614
1.2D + 1.0W Normal 115 mph wind with no ice	187.50	0.3532	-0.0103	0.1630	0.1633
1.2D + 1.0W 45° 115 mph wind with no ice	50.00	0.0444	0.0075	0.0848	0.0851
1.2D + 1.0W 45° 115 mph wind with no ice	75.00	0.0869	0.0089	0.1009	0.1013
1.2D + 1.0W 45° 115 mph wind with no ice	87.50	0.1092	0.0094	0.1059	0.1063
1.2D + 1.0W 45° 115 mph wind with no ice	100.00	0.1342	0.0107	0.1209	0.1214
1.2D + 1.0W 45° 115 mph wind with no ice	112.50	0.1621	0.0118	0.1336	0.1341
1.2D + 1.0W 45° 115 mph wind with no ice	125.00	0.1934	0.0133	0.1501	0.1507
1.2D + 1.0W 45° 115 mph wind with no ice	137.50	0.2278	0.0143	0.1622	0.1628
1.2D + 1.0W 45° 115 mph wind with no ice	150.00	0.2641	0.0146	0.1673	0.1673
1.2D + 1.0W 45° 115 mph wind with no ice	160.17	0.2934	-0.0149	0.1689	0.1695
1.2D + 1.0W 45° 115 mph wind with no ice	170.33	0.3237	-0.0153	0.1728	0.1735
1.2D + 1.0W 45° 115 mph wind with no ice	187.50	0.3752	-0.0154	0.1742	0.1748
0.9D + 1.0W Normal 115 mph wind with no ice	50.00	0.0418	0.0051	0.0797	0.0798
0.9D + 1.0W Normal 115 mph wind with no ice	75.00	0.0819	0.0060	0.0951	0.0953
0.9D + 1.0W Normal 115 mph wind with no ice	87.50	0.103	0.0063	0.1000	0.1002
0.9D + 1.0W Normal 115 mph wind with no ice	100.00	0.1266	0.0072	0.1142	0.1144
0.9D + 1.0W Normal 115 mph wind with no ice	112.50	0.153	0.0080	0.1260	0.1263
0.9D + 1.0W Normal 115 mph wind with no ice	125.00	0.1824	0.0090	0.1417	0.142
0.9D + 1.0W Normal 115 mph wind with no ice	137.50	0.2149	0.0097	0.1531	0.1534
0.9D + 1.0W Normal 115 mph wind with no ice	150.00	0.2491	0.0098	0.1564	0.1567
0.9D + 1.0W Normal 115 mph wind with no ice	160.17	0.2769	-0.0100	0.1579	0.1582
0.9D + 1.0W Normal 115 mph wind with no ice	170.33	0.3051	-0.0102	0.1613	0.1616
0.9D + 1.0W Normal 115 mph wind with no ice	187.50	0.3535	-0.0103	0.1633	0.1636
0.9D + 1.0W 45° 115 mph wind with no ice	50.00	0.0444	0.0075	0.0847	0.085
0.9D + 1.0W 45° 115 mph wind with no ice	75.00	0.0868	0.0089	0.1009	0.1013
0.9D + 1.0W 45° 115 mph wind with no ice	87.50	0.1091	0.0094	0.1058	0.1062
0.9D + 1.0W 45° 115 mph wind with no ice	100.00	0.1341	0.0107	0.1208	0.1212
0.9D + 1.0W 45° 115 mph wind with no ice	112.50	0.162	0.0118	0.1334	0.1339
0.9D + 1.0W 45° 115 mph wind with no ice	125.00	0.1932	0.0133	0.1500	0.1506
0.9D + 1.0W 45° 115 mph wind with no ice	137.50	0.2276	0.0143	0.1620	0.1627
0.9D + 1.0W 45° 115 mph wind with no ice	150.00	0.2639	0.0146	0.1671	0.1671
0.9D + 1.0W 45° 115 mph wind with no ice	160.17	0.2932	-0.0149	0.1687	0.1693
0.9D + 1.0W 45° 115 mph wind with no ice	170.33	0.3234	-0.0153	0.1726	0.1732
0.9D + 1.0W 45° 115 mph wind with no ice	187.50	0.3748	-0.0154	0.1739	0.1746
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	50.00	0.0157	0.0016	0.0257	0.0257
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	75.00	0.0276	0.0018	0.0296	0.0297
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	87.50	0.0337	0.0019	0.0298	0.0299
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	100.00	0.0405	0.0022	0.0337	0.0338
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	112.50	0.048	0.0024	0.0365	0.0366
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	125.00	0.0562	0.0026	0.0404	0.0405
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	137.50	0.0651	0.0028	0.0425	0.0426
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	150.00	0.0741	0.0028	0.0420	0.0421
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	160.17	0.0812	0.0028	0.0415	0.0416
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	170.33	0.0886	0.0029	0.0426	0.0427
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	187.50	0.1009	0.0029	0.0431	0.0432
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	50.00	0.017	0.0024	0.0273	0.0273
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	75.00	0.0297	0.0028	0.0319	0.0319
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	87.50	0.0363	0.0028	0.0324	0.0324
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	100.00	0.0436	0.0032	0.0369	0.0369
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	112.50	0.0518	0.0035	0.0402	0.0402
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	125.00	0.0608	0.0039	0.0449	0.0449
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	137.50	0.0707	0.0042	0.0479	0.0479
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	150.00	0.0809	0.0042	0.0487	0.0487
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	160.17	0.0891	-0.0043	0.0489	0.049

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	170.33	0.0978	-0.0044	0.0501	0.0501
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	187.50	0.1124	-0.0044	0.0511	0.0511
1.2D + 1.0Ev + 1.0Eh Normal Seismic	50.00	0.004	0.0006	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh Normal Seismic	75.00	0.0088	0.0007	0.0121	0.0121
1.2D + 1.0Ev + 1.0Eh Normal Seismic	87.50	0.0115	0.0008	0.0136	0.0137
1.2D + 1.0Ev + 1.0Eh Normal Seismic	100.00	0.0147	0.0010	0.0159	0.0159
1.2D + 1.0Ev + 1.0Eh Normal Seismic	112.50	0.0183	0.0011	0.0177	0.0177
1.2D + 1.0Ev + 1.0Eh Normal Seismic	125.00	0.0224	0.0012	0.0201	0.0201
1.2D + 1.0Ev + 1.0Eh Normal Seismic	137.50	0.027	0.0014	0.0223	0.0224
1.2D + 1.0Ev + 1.0Eh Normal Seismic	150.00	0.0321	0.0015	0.0235	0.0236
1.2D + 1.0Ev + 1.0Eh Normal Seismic	160.17	0.0364	0.0015	0.0250	0.025
1.2D + 1.0Ev + 1.0Eh Normal Seismic	170.33	0.0408	0.0016	0.0258	0.0259
1.2D + 1.0Ev + 1.0Eh Normal Seismic	187.50	0.0485	0.0016	0.0267	0.0267
1.2D + 1.0Ev + 1.0Eh 45° Seismic	50.00	0.0041	0.0008	0.0093	0.0093
1.2D + 1.0Ev + 1.0Eh 45° Seismic	75.00	0.0088	0.0011	0.0121	0.0121
1.2D + 1.0Ev + 1.0Eh 45° Seismic	87.50	0.0116	0.0012	0.0137	0.0137
1.2D + 1.0Ev + 1.0Eh 45° Seismic	100.00	0.0147	0.0014	0.0160	0.016
1.2D + 1.0Ev + 1.0Eh 45° Seismic	112.50	0.0183	0.0015	0.0178	0.0178
1.2D + 1.0Ev + 1.0Eh 45° Seismic	125.00	0.0224	0.0018	0.0201	0.0201
1.2D + 1.0Ev + 1.0Eh 45° Seismic	137.50	0.027	0.0019	0.0224	0.0224
1.2D + 1.0Ev + 1.0Eh 45° Seismic	150.00	0.0321	0.0021	0.0237	0.0237
1.2D + 1.0Ev + 1.0Eh 45° Seismic	160.17	0.0365	0.0022	0.0251	0.0251
1.2D + 1.0Ev + 1.0Eh 45° Seismic	170.33	0.0408	0.0023	0.0259	0.0259
1.2D + 1.0Ev + 1.0Eh 45° Seismic	187.50	0.0485	0.0023	0.0269	0.0269
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	50.00	0.004	0.0006	0.0091	0.0091
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	75.00	0.0087	0.0007	0.0120	0.012
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	87.50	0.0115	0.0008	0.0135	0.0136
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	100.00	0.0147	0.0010	0.0157	0.0158
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	112.50	0.0183	0.0011	0.0176	0.0176
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	125.00	0.0224	0.0012	0.0200	0.02
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	137.50	0.027	0.0014	0.0222	0.0222
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	150.00	0.032	0.0015	0.0235	0.0235
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	160.17	0.0363	0.0015	0.0248	0.0249
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	170.33	0.0408	0.0016	0.0257	0.0257
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	187.50	0.0485	0.0016	0.0264	0.0265
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	50.00	0.004	0.0008	0.0091	0.0091
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	75.00	0.0088	0.0011	0.0120	0.012
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	87.50	0.0115	0.0012	0.0135	0.0135
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	100.00	0.0147	0.0014	0.0158	0.0158
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	112.50	0.0183	0.0015	0.0176	0.0176
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	125.00	0.0224	0.0018	0.0200	0.02
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	137.50	0.027	0.0019	0.0223	0.0223
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	150.00	0.0321	0.0021	0.0237	0.0237
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	160.17	0.0364	0.0022	0.0250	0.025
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	170.33	0.0408	0.0023	0.0257	0.0257
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	187.50	0.0485	0.0023	0.0266	0.0266
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	50.00	0.0115	0.0014	0.0219	0.0219
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	75.00	0.0223	0.0016	0.0259	0.0259
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	87.50	0.028	0.0017	0.0272	0.0272
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	100.00	0.0344	0.0020	0.0309	0.031
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	112.50	0.0415	0.0022	0.0340	0.0341
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	125.00	0.0494	0.0024	0.0382	0.0382
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	137.50	0.058	0.0026	0.0410	0.0411
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	150.00	0.0672	0.0027	0.0416	0.0416
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	160.17	0.0745	0.0027	0.0418	0.0418
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	170.33	0.0819	-0.0028	0.0427	0.0428
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	187.50	0.0946	0.0028	0.0433	0.0434
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	50.00	0.0121	0.0020	0.0231	0.0231
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	75.00	0.0237	0.0024	0.0274	0.0275
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	87.50	0.0297	0.0025	0.0288	0.0289
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	100.00	0.0365	0.0029	0.0328	0.033
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	112.50	0.0441	0.0032	0.0363	0.0364
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	125.00	0.0526	0.0036	0.0409	0.041
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	137.50	0.062	0.0039	0.0443	0.0443
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	150.00	0.0718	0.0040	0.0456	0.0456
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	160.17	0.0798	-0.0041	0.0460	0.0462
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	170.33	0.088	-0.0042	0.0470	0.0472
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	187.50	0.102	-0.0042	0.0478	0.0478

ASSET: # 88014, NEW FAIRFIELD

STANDARD ANSI/TIA-222-H

CUSTOMER AT&T MOBILITY

ENG NO.: 13748401_C3_03

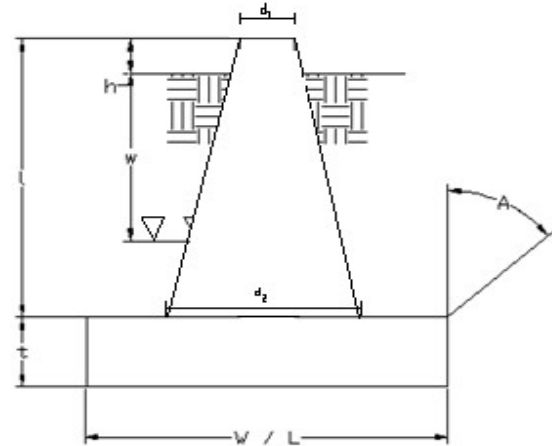
Site No.:	88014
Engineer:	F.WAKID
Date:	Thursday, January 27, 2022
Carrier:	New Fairfield

Pyramidal Pad & Pier

Design Loads (Unfactored)

Compression/Leg:	219.40	k
Uplift/Leg:	157.50	k

Face Width @ Top of Pier (d_1):	3.58	ft
Face Width @ Bottom of Pier (d_2):	6.00	ft
Total Length of Pier (l):	6.50	ft
Height of Pedestal Above Ground (h):	0.630	ft
Width of Pad (W):	16.00	ft
Length of Pad (L):	16.00	ft
Thickness of Pad (t):	3.00	ft
Water Table Depth (w):	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	120.0	pcf
Unit Weight of Soil (Below Water Table):	57.6	pcf
Friction Angle of Uplift (A):	22	°
Allowable Compressive Bearing Pressure:	4500	psf



Volume Pier Above Gnd:	8.61	ft ³
Pier & Soil Below WT:	0.00	ft
Pier FW @ WT:	6.00	ft
Soil Pyramid Projection @ Surface:	2.37	ft
Soil Pyramid Projection @ WT:	0.00	ft
Pad Below WT:	0.00	ft
Volume Pier:	152.31	ft ³
Volume Pad:	768.00	ft ³
Volume Soil:	1839.09	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:	22.85	k
Weight Pad:	115.20	k
Weight Soil:	220.69	k

Uplift Resistance

ϕ_s Uplift (k)	269.05	0.59	OK
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Axial Resistance

ϕ_s Axial (k)	864.00	0.25	OK
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**Qualtek Wireless on behalf of
AT&T Mobility, LLC**

Site FA – 10071152

Site ID – CT5534

USID – 26034

Site Name – NEW FAIRFIELD

MRCTB053101-MRCTB053116-

MRCTB052723-MRCTB052690-

MRCTB052732-MRCTB052729

16 TITICUS MOUNTAIN ROAD

NEW FAIRFIELD, CT 06812

Latitude: N41-27-03.21

Longitude: W73-30-57.96

Structure Type: Self Support

Report generated date: April 20, 2022

Report by: Bo Matsuda

Customer Contact: Meagan Beausoleil

**AT&T Mobility, LLC will be compliant when the
remediation recommended in Section 5.2 or
other appropriate remediation is implemented.**

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1 General Site Summary

1.1 Report Summary

AT&T Mobility, LLC	Summary
Max Cumulative Simulated RFE Level on the Ground	<1.0% General Public Limit 1" in front of AT&T Mobility, LLC's Alpha Sector Antenna 1
Compliant per AT&T Mobility, LLC's Policy?	Yes

1.2 Fall Arrest Anchor Point Summary

Fall Arrest Anchor & Parapet Info	Parapet Available (Y/N)	Parapet Height (inches)	Fall Arrest Anchor Available (Y/N)
Roof Safety Info	N	N/A	N

The following documents were provided by the client and were utilized to create this report:

RFDS: NEW-ENGLAND_CONNECTICUT_CT5534_2021-LTE-Next-Carrier_LTE_mh705r_2051A11BFN_10071152_26034_09-13-2021_Final-Approved_v2.00

CD's: AT&T, CT5534, ATC 88014 (13748401) AE(CD). Rev0_S&S

RF Powers Used: Max RRH Powers

AT&T Mobility, LLC Duty Cycle: MPE Calculations are modeled with "75% Downlink Duty Cycle" for LTE and 5G.

1.3 Signage Summary

a. Pre-Site Visit AT&T Signage (Existing Signage)

AT&T Signage Locations																				
	Information 1		Information 2		Notice		Notice 2		Caution		Caution 2		Warning		Warning 2		Barriers			
Access Point(s)																				
Alpha																				
Beta																				
Gamma																				
Delta																				
Epsilon																				
Zeta																				
Status	Existing	N/A	Existing	N/A	Existing	N/A	Existing	N/A	Existing	N/A	Existing	N/A	Existing	N/A	Existing	N/A	Existing	N/A	Existing	N/A

b. Proposed AT&T Signage

AT&T Signage Locations																				
	Information 1		Information 2		Notice		Notice 2		Caution		Caution 2		Warning		Warning 2		Barriers			
Access Point(s)											1									
Alpha																				
Beta																				
Gamma																				
Delta																				
Epsilon																				
Zeta																				
Status	N/A	Remove	N/A	Remove	N/A	Remove	Install	Remove	N/A	Remove	Install	Remove	N/A	Remove	Install	Remove	Install	Remove	Install	Remove

Note: The Caution sign proposed at the Access is a Caution 2B sign.

c. Final Compliance Configuration Signage Summary (Required)

AT&T Signage Locations																				
	Information 1		Information 2		Notice		Notice 2		Caution		Caution 2		Warning		Warning 2		Barriers			
Access Point(s)											1									
Alpha																				
Beta																				
Gamma																				
Delta																				
Epsilon																				
Zeta																				
Status	N/A	N/A	N/A	N/A	N/A	N/A	Existing	Proposed	N/A	N/A	Existing	Proposed	N/A	N/A	Existing	Proposed	Existing	Proposed	Existing	Proposed

Note: The Caution sign required at the Access is a Caution 2B sign.

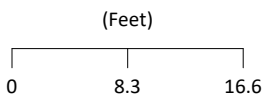
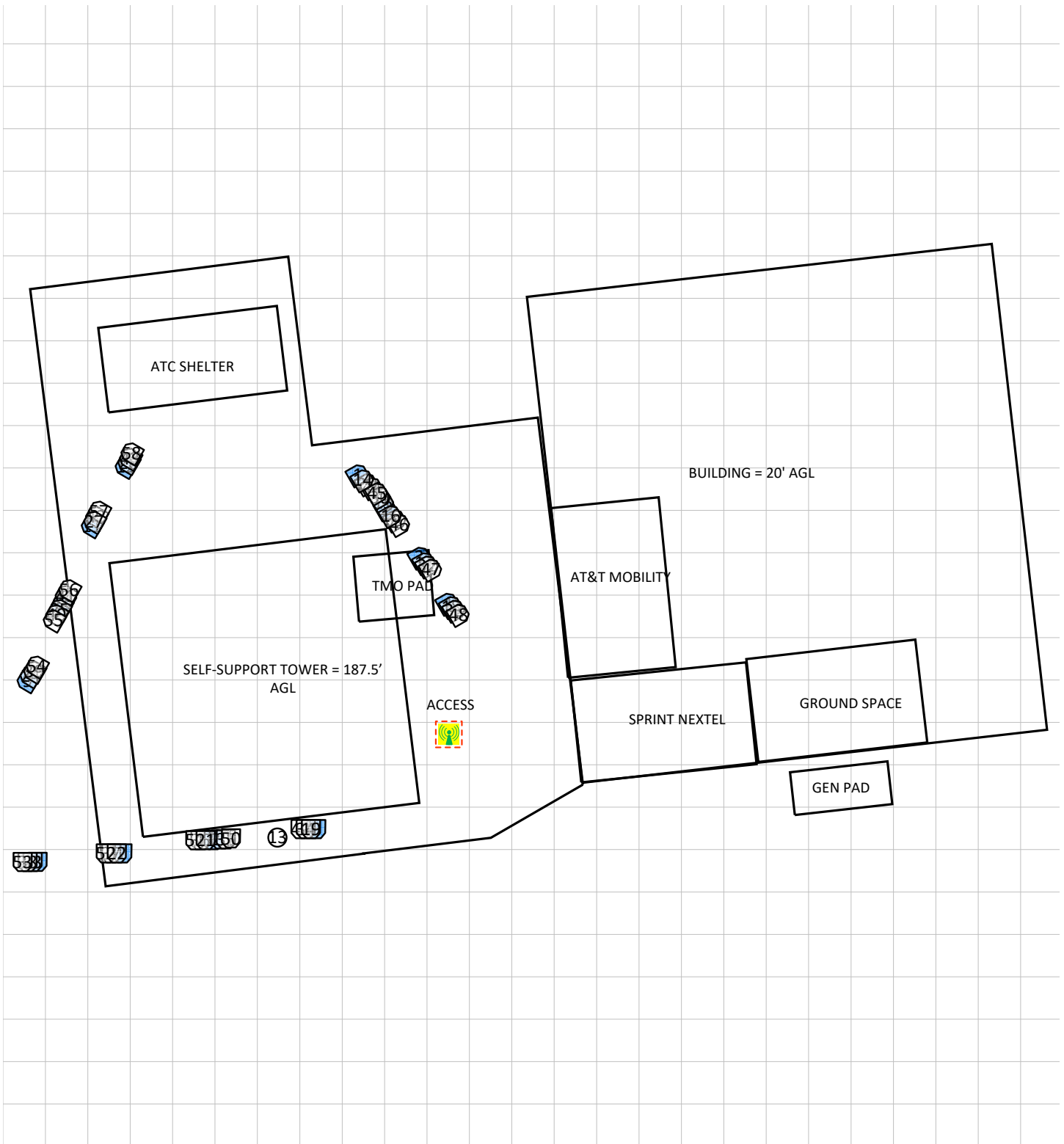
Note: The table above represents EVERY compliance item that MUST be implemented at this location.

2 Scale Maps of Site

The following diagrams are included:

- Site Scale Map
- RF Exposure Diagram
- RF Exposure Diagram - AT&T Mobility, LLC Contribution
- RF Exposure Diagram – Elevation View

Site Scale Map For: NEW FAIRFIELD



AT&T MOBILITY LLC	VERIZON WIRELESS	T-MOBILE	SPRINT	DISH	UNKNOWN CARRIER
Sign Legend					
Notice	Caution	Notice 2	Caution 2	Warning	Warning 2
Info	Info 2	RF Emissions Diagram			
Barrier Signage Legend					
No-sign	Notice 2	Caution 2	Warning 2	Notice	Caution
Existing Barrier	Proposed Barrier/Sign	Remove Barrier/Sign	Remove Barrier/Sign		

3 Antenna Inventory

The following antenna inventory was obtained by the customer and was utilized to create the site model diagrams:

Ant ID	Operator	Antenna Make & Model	Type	TX Freq (MHz)	Technology	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Power	Power Type	Power Unit	TX Count	Total ERP (Watts)	Ant Gain (dBd)	Z (ft)	AGL (ft)
1	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	UMTS	60	82.0	4.6	40	TPO	Watt	1	566.32	11.51	157.71	157.71
2	AT&T MOBILITY LLC	CCI Antennas HPA-65R-BUU-H6	Panel	722	LTE	60	66.2	6	80	TPO	Watt	1	1177.85	11.68	157	157
2	AT&T MOBILITY LLC	CCI Antennas HPA-65R-BUU-H6	Panel	2300	LTE	60	61.1	6	100	TPO	Watt	1	2837.92	14.53	157	157
3	AT&T MOBILITY LLC (PROPOSED)	CCI Antennas OPA65R-BU6D	Panel	2100	LTE/AWS1	60	69.0	5.9	240	TPO	Watt	1	12308.67	17.10	157.04	157.04
3	AT&T MOBILITY LLC (PROPOSED)	CCI Antennas OPA65R-BU6D	Panel	763	LTE	60	61.1	5.9	160	TPO	Watt	1	2455.39	11.86	157.04	157.04
4	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	1900	LTE	60	67.8	5.9	80	TPO	Watt	1	2037.46	14.06	157.04	157.04
4	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	737	LTE	60	65.7	5.9	160	TPO	Watt	1	2399.5	11.76	157.04	157.04
4	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	850	5G	60	70.9	5.9	160	TPO	Watt	1	2239.34	11.46	157.04	157.04
4	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	1900	LTE	60	67.8	5.9	80	TPO	Watt	1	2037.46	14.06	157.04	157.04
5	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	UMTS	180	82.0	4.6	40	TPO	Watt	1	566.32	11.51	157.71	157.71
6	AT&T MOBILITY LLC	CCI Antennas HPA-65R-BUU-H6	Panel	2300	LTE	180	61.1	6	100	TPO	Watt	1	2837.92	14.53	157	157
6	AT&T MOBILITY LLC	CCI Antennas HPA-65R-BUU-H6	Panel	722	LTE	180	66.2	6	80	TPO	Watt	1	1177.85	11.68	157	157
7	AT&T MOBILITY LLC (PROPOSED)	CCI Antennas OPA65R-BU6D	Panel	763	LTE	180	61.1	5.9	160	TPO	Watt	1	2455.39	11.86	157.04	157.04
7	AT&T MOBILITY LLC (PROPOSED)	CCI Antennas OPA65R-BU6D	Panel	2100	LTE/AWS1	180	69.0	5.9	240	TPO	Watt	1	12308.67	17.10	157.04	157.04
8	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	1900	LTE	180	67.8	5.9	80	TPO	Watt	1	2037.46	14.06	157.04	157.04
8	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	1900	LTE	180	67.8	5.9	80	TPO	Watt	1	2037.46	14.06	157.04	157.04
8	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	737	LTE	180	65.7	5.9	160	TPO	Watt	1	2399.5	11.76	157.04	157.04
8	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	850	5G	180	70.9	5.9	160	TPO	Watt	1	2239.34	11.46	157.04	157.04
9	AT&T MOBILITY LLC	Powerwave 7770	Panel	850	UMTS	300	82.0	4.6	40	TPO	Watt	1	566.32	11.51	157.71	157.71

Ant ID	Operator	Antenna Make & Model	Type	TX Freq (MHz)	Technology	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Power	Power Type	Power Unit	TX Count	Total ERP (Watts)	Ant Gain (dBd)	Z (ft)	AGL (ft)
10	AT&T MOBILITY LLC	CCI Antennas HPA-65R-BUU-H6	Panel	722	LTE	300	66.2	6	80	TPO	Watt	1	1177.85	11.68	157	157
10	AT&T MOBILITY LLC	CCI Antennas HPA-65R-BUU-H6	Panel	2300	LTE	300	61.1	6	100	TPO	Watt	1	2837.92	14.53	157	157
11	AT&T MOBILITY LLC (PROPOSED)	CCI Antennas OPA65R-BU6D	Panel	763	LTE	300	61.1	5.9	160	TPO	Watt	1	2455.39	11.86	157.04	157.04
11	AT&T MOBILITY LLC (PROPOSED)	CCI Antennas OPA65R-BU6D	Panel	2100	LTE/AWS1	300	69.0	5.9	240	TPO	Watt	1	12308.67	17.10	157.04	157.04
12	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	850	5G	300	70.9	5.9	160	TPO	Watt	1	2239.34	11.46	157.04	157.04
12	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	737	LTE	300	65.7	5.9	160	TPO	Watt	1	2399.5	11.76	157.04	157.04
12	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	1900	LTE	300	67.8	5.9	80	TPO	Watt	1	2037.46	14.06	157.04	157.04
12	AT&T MOBILITY LLC (PROPOSED)	Cci DMP65R-BU6D	Panel	1900	LTE	300	67.8	5.9	80	TPO	Watt	1	2037.46	14.06	157.04	157.04
13	UNKNOWN CARRIER	Generic	Omni	150		0	360.0	19.3	100	ERP	Watt	1	100	5.47	84.38	84.38
14	UNKNOWN CARRIER	Generic	Panel	700		60	65.0	6.3	160	TPO	Watt	1	2884.83	12.56	142.36	142.36
15	UNKNOWN CARRIER	Generic	Panel	850		60	65.0	6.3	160	TPO	Watt	1	3524.68	13.43	142.36	142.36
16	UNKNOWN CARRIER	Generic	Panel	1900		60	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	142.36	142.36
17	UNKNOWN CARRIER	Generic	Panel	1900		60	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	142.36	142.36
18	UNKNOWN CARRIER	Generic	Panel	2100		60	65.0	6.3	160	TPO	Watt	1	5716.37	15.53	142.36	142.36
19	UNKNOWN CARRIER	Generic	Panel	700		180	65.0	6.3	160	TPO	Watt	1	2884.83	12.56	142.36	142.36
20	UNKNOWN CARRIER	Generic	Panel	850		180	65.0	6.3	160	TPO	Watt	1	3524.68	13.43	142.36	142.36
21	UNKNOWN CARRIER	Generic	Panel	1900		180	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	142.36	142.36
22	UNKNOWN CARRIER	Generic	Panel	1900		180	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	142.36	142.36
23	UNKNOWN CARRIER	Generic	Panel	2100		180	65.0	6.3	160	TPO	Watt	1	5716.37	15.53	142.36	142.36
24	UNKNOWN CARRIER	Generic	Panel	700		300	65.0	6.3	160	TPO	Watt	1	2884.83	12.56	142.36	142.36

Ant ID	Operator	Antenna Make & Model	Type	TX Freq (MHz)	Technology	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Power	Power Type	Power Unit	TX Count	Total ERP (Watts)	Ant Gain (dBd)	Z (ft)	AGL (ft)
25	UNKNOWN CARRIER	Generic	Panel	850		300	65.0	6.3	160	TPO	Watt	1	3524.68	13.43	142.36	142.36
26	UNKNOWN CARRIER	Generic	Panel	1900		300	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	142.36	142.36
27	UNKNOWN CARRIER	Generic	Panel	1900		300	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	142.36	142.36
28	UNKNOWN CARRIER	Generic	Panel	2100		300	65.0	6.3	160	TPO	Watt	1	5716.37	15.53	142.36	142.36
29	UNKNOWN CARRIER	Generic	Panel	700		60	65.0	6.3	160	TPO	Watt	1	2884.83	12.56	165.46	165.46
30	UNKNOWN CARRIER	Generic	Panel	850		60	65.0	4.6	160	TPO	Watt	1	3027.75	12.77	166.3	166.3
31	UNKNOWN CARRIER	Generic	Panel	1900		60	65.0	4.6	80	TPO	Watt	1	2793.12	15.43	166.3	166.3
32	UNKNOWN CARRIER	Generic	Panel	1900		60	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	165.46	165.46
33	UNKNOWN CARRIER	Generic	Panel	2100		60	65.0	6.3	160	TPO	Watt	1	5716.37	15.53	165.46	165.46
34	UNKNOWN CARRIER	Generic	Panel	700		180	65.0	6.3	160	TPO	Watt	1	2884.83	12.56	165.46	165.46
35	UNKNOWN CARRIER	Generic	Panel	850		180	65.0	4.6	160	TPO	Watt	1	3027.75	12.77	166.3	166.3
36	UNKNOWN CARRIER	Generic	Panel	1900		180	65.0	4.6	80	TPO	Watt	1	2793.12	15.43	166.3	166.3
37	UNKNOWN CARRIER	Generic	Panel	1900		180	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	165.46	165.46
38	UNKNOWN CARRIER	Generic	Panel	2100		180	65.0	6.3	160	TPO	Watt	1	5716.37	15.53	165.46	165.46
39	UNKNOWN CARRIER	Generic	Panel	700		300	65.0	6.3	160	TPO	Watt	1	2884.83	12.56	165.46	165.46
40	UNKNOWN CARRIER	Generic	Panel	850		300	65.0	4.6	160	TPO	Watt	1	3027.75	12.77	166.3	166.3
41	UNKNOWN CARRIER	Generic	Panel	1900		300	65.0	4.6	80	TPO	Watt	1	2793.12	15.43	166.3	166.3
42	UNKNOWN CARRIER	Generic	Panel	1900		300	65.0	6.3	80	TPO	Watt	1	3381.35	16.26	165.46	165.46
43	UNKNOWN CARRIER	Generic	Panel	2100		300	65.0	6.3	160	TPO	Watt	1	5716.37	15.53	165.46	165.46
44	UNKNOWN CARRIER	Generic	Panel	700		60	65.0	4.6	160	TPO	Watt	1	2618.91	12.14	187.7	187.7

Ant ID	Operator	Antenna Make & Model	Type	TX Freq (MHz)	Technology	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Power	Power Type	Power Unit	TX Count	Total ERP (Watts)	Ant Gain (dBd)	Z (ft)	AGL (ft)
45	UNKNOWN CARRIER	Generic	Panel	850		60	65.0	4.6	160	TPO	Watt	1	3027.75	12.77	187.7	187.7
46	UNKNOWN CARRIER	Generic	Panel	1900		60	65.0	8	80	TPO	Watt	1	3468.09	16.37	186	186
47	UNKNOWN CARRIER	Generic	Panel	1900		60	65.0	8	80	TPO	Watt	1	3468.09	16.37	186	186
48	UNKNOWN CARRIER	Generic	Panel	2100		60	65.0	8	160	TPO	Watt	1	6027.26	15.76	186	186
49	UNKNOWN CARRIER	Generic	Panel	700		180	65.0	4.6	160	TPO	Watt	1	2618.91	12.14	187.7	187.7
50	UNKNOWN CARRIER	Generic	Panel	850		180	65.0	4.6	160	TPO	Watt	1	3027.75	12.77	187.7	187.7
51	UNKNOWN CARRIER	Generic	Panel	1900		180	65.0	8	80	TPO	Watt	1	3468.09	16.37	186	186
52	UNKNOWN CARRIER	Generic	Panel	1900		180	65.0	8	80	TPO	Watt	1	3468.09	16.37	186	186
53	UNKNOWN CARRIER	Generic	Panel	2100		180	65.0	8	160	TPO	Watt	1	6027.26	15.76	186	186
54	UNKNOWN CARRIER	Generic	Panel	700		300	65.0	4.6	160	TPO	Watt	1	2618.91	12.14	187.7	187.7
55	UNKNOWN CARRIER	Generic	Panel	850		300	65.0	4.6	160	TPO	Watt	1	3027.75	12.77	187.7	187.7
56	UNKNOWN CARRIER	Generic	Panel	1900		300	65.0	8	80	TPO	Watt	1	3468.09	16.37	186	186
57	UNKNOWN CARRIER	Generic	Panel	1900		300	65.0	8	80	TPO	Watt	1	3468.09	16.37	186	186
58	UNKNOWN CARRIER	Generic	Panel	2100		300	65.0	8	160	TPO	Watt	1	6027.26	15.76	186	186

Note: The Z reference indicates the bottom of the antenna height above the main site level unless otherwise indicated. Effective Radiated Power (ERP) is provided by the operator or based on Sitesafe experience. The values used in the modeling may be greater than are currently deployed. For other operators at this site the use of "Generic" as an antenna model or "Unknown" for a wireless operator means the information with regard to operator, their FCC license and/or antenna information was not available nor could it be secured while on site. Other operator's equipment, antenna models and powers used for modeling are based on obtained information or Sitesafe experience.

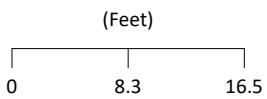
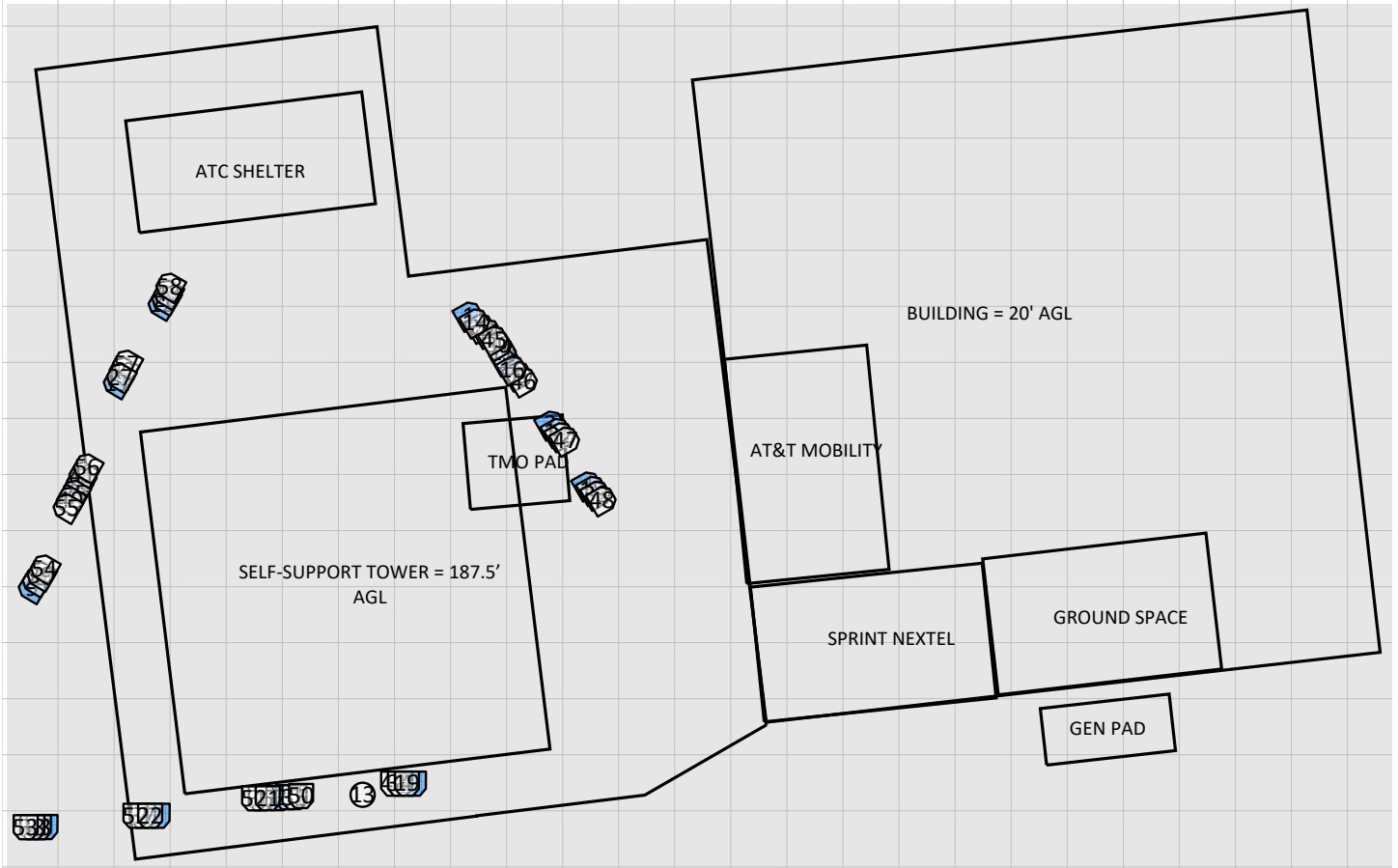
4 Emission Predictions

In the RF Exposure Simulations below all heights are reflected with respect to main site level. In most rooftop cases this is the height of the main rooftop and in other cases this can be ground level. Each different height area, rooftop, or platform level is labeled with its height relative to the main site level. Emissions are calculated appropriately based on the relative height and location of that area to all antennas. The total analyzed elevations in the below RF Exposure Simulations are listed below.

- GROUND LEVEL = 0'
- BUILDING = 20' AGL

The Antenna Inventory heights are referenced to the same level.

RF Exposure Simulation For: NEW FAIRFIELD Composite View

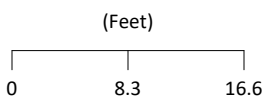
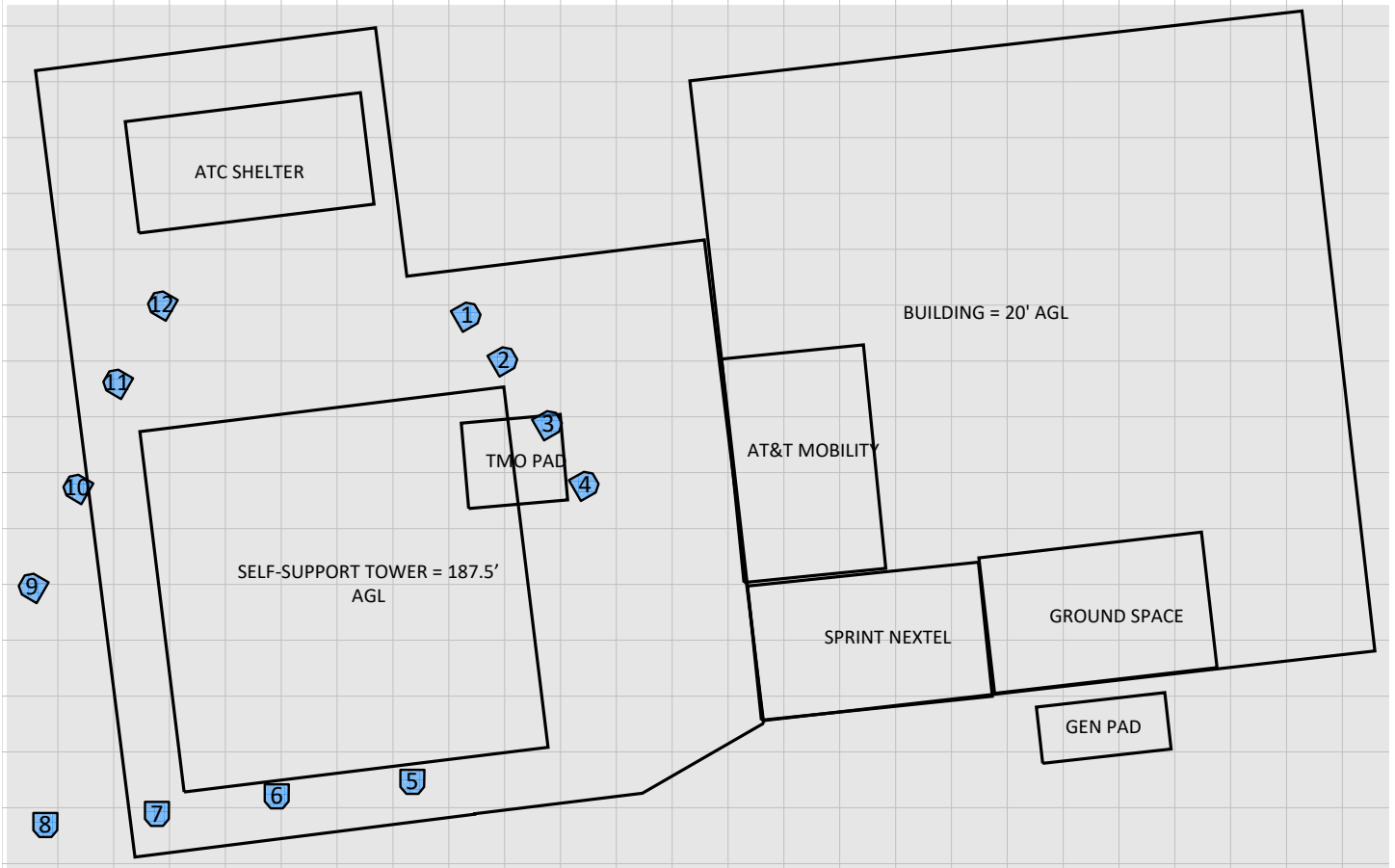


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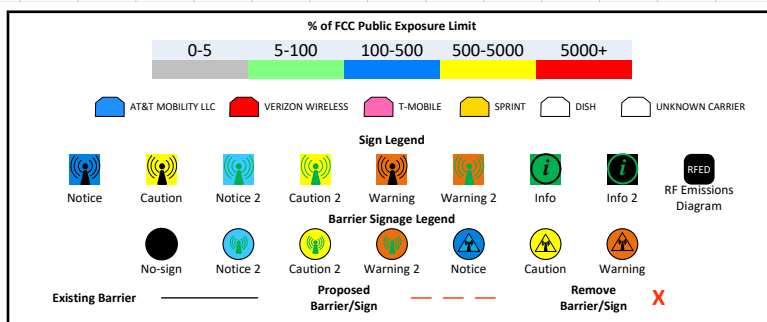
% of FCC Public Exposure Limit					
0-5	5-100	100-500	500-5000	5000+	
Carrier Legend 					
Sign Legend 					
Barrier Signage Legend 					
Existing Barrier			Proposed Barrier/Sign		Remove Barrier/Sign X

Sitesafe OET-65 Model
Near Field Boundary:
1.5 * Aperture
Reflection Factor: 1
Spatially Averaged

RF Exposure Simulation For: NEW FAIRFIELD AT&T Mobility, LLC Contributions



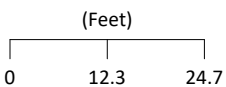
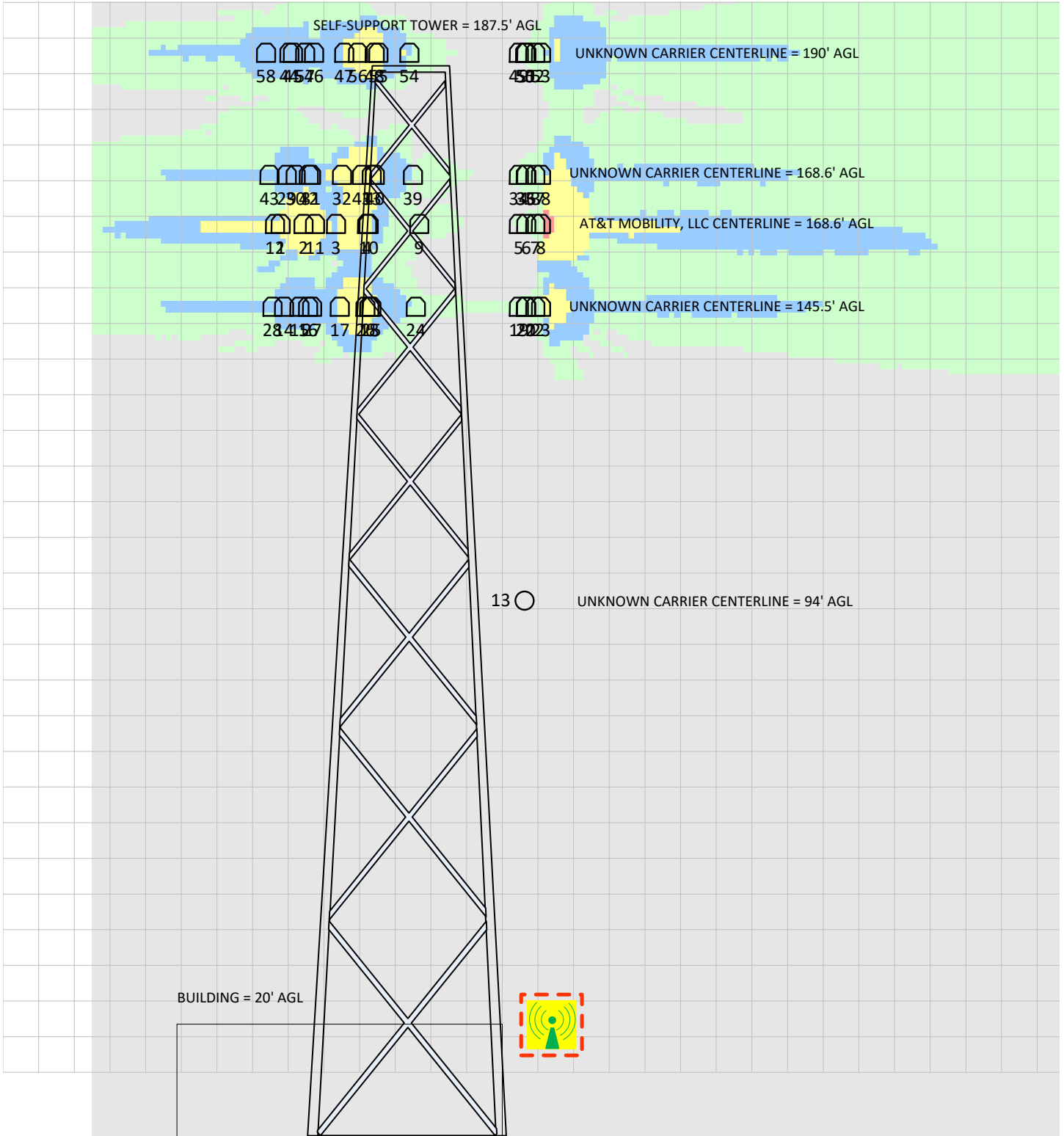
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Sitesafe OET-65 Model
Near Field Boundary:
1.5 * Aperture
Reflection Factor: 1
Spatially Averaged

RF Exposure Simulation For: NEW FAIRFIELD

Elevation View: West to East



% of FCC Public Exposure Limit				
0-5	5-100	100-500	500-5000	5000+
Sign Legend 				
Barrier Signage Legend 				
Existing Barrier ————— Proposed Barrier/Sign - - - - Remove Barrier/Sign X				

5 Site Compliance

5.1 Site Compliance Statement

Upon evaluation of the cumulative RF emission levels from all operators at this site, RF hazard signage and antenna locations, Sitesafe has determined that:

AT&T Mobility, LLC will be compliant when the remediation recommended in Section 5.2 or other appropriate remediation is implemented.

Based on measurement or predictions, other wireless operators on this site may be out of RF exposure compliance with FCC regulations on this site. We recommend that those operators review this site with respect to RF exposure compliance.

The compliance determination is based on General Public RFE levels derived from theoretical modeling, RF signage placement, proposed antenna inventory and the level of restricted access to the antennas at the site. Any deviation from the AT&T Mobility, LLC's proposed deployment plan could result in the site being rendered non-compliant.

Modeling is used for determining compliance and the percentage of MPE contribution.

5.2 Actions for Site Compliance

Based on FCC regulations, common industry practice, and our understanding of AT&T Mobility, LLC RF Safety Policy requirements, this section provides a statement of recommendations for site compliance. Recommendations have been proposed based on our understanding of existing access restrictions, signage, and an analysis of predicted RFE levels.

AT&T Mobility, LLC will be made compliant if the following changes are implemented:

Site Access Location

(1) Caution 2b sign(s) required.

Notes:

- There are no adjacent structures within the potential exposure areas of the AT&T Mobility, LLC C-Band antennas.

6 Reviewer Certification

The professional engineer whose seal appears on the cover of this document hereby certifies and affirms:

That I am registered as a Professional Engineer in the jurisdiction indicated in the professional engineering stamp on the cover of this document; and

The reviewer whose signature appears below hereby certifies and affirms:

That I am an employee of Site Safe, LLC, in Vienna, Virginia, at which place the staff and I provide RF compliance services to clients in the wireless communications industry; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Bo Matsuda.

April 20, 2022

Appendix A – Statement of Limiting Conditions

Sitesafe has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for Sitesafe's recommendations.

Sitesafe may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, that Sitesafe became aware of during the normal research involved in creating this report. Sitesafe will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because Sitesafe is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data collected by Sitesafe provided by a second party and data collected by Sitesafe, the data will be used.

Appendix B – Regulatory Background Information

AT&T Mobility, LLC policies

In 1996, the Federal Communications Commission (FCC) adopted regulations for the evaluating of the effects of RF emissions in 47 CFR § 1.1307 and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 (“OET Bulletin 65”), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per their congressional mandate.

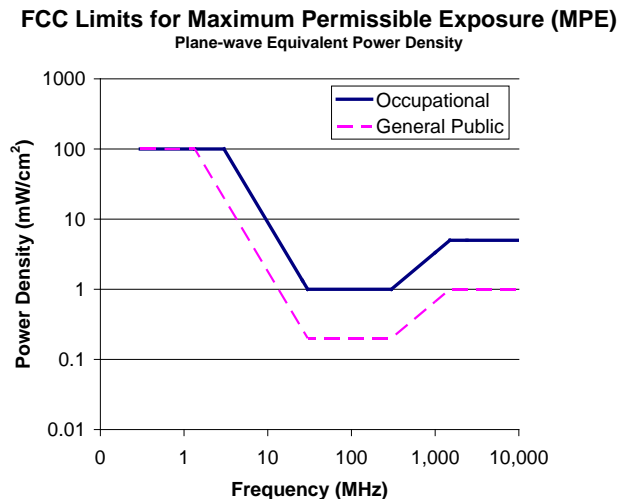
FCC regulations define two separate tiers of exposure limits: Occupational or “Controlled environment” and General Public or “Uncontrolled environment”. The General Public limits are generally five times more conservative or restrictive than the Occupational limit. These limits apply to *accessible* areas where workers or the general public may be exposed to Radio Frequency (RF) electromagnetic fields.

Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (i.e. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage. A site with Controlled environments is evaluated with Occupational limits.

All other areas are considered Uncontrolled environments. If a site has no access controls or no RF warning signage it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:



Limits for Occupational/Controlled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

OSHA Statement

The General Duty clause of the OSHA Act (Section 5) outlines the occupational safety and health responsibilities of the employer and employee. The General Duty clause in Section 5 states:

- (a) Each employer –
 - (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
 - (2) shall comply with occupational safety and health standards promulgated under this Act.

- (b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA has defined Radiofrequency and Microwave Radiation safety standards for workers who may enter hazardous RF areas. Regulation Standards 29 CFR § 1910.147 identify a generic Lockout/Tagout procedure aimed to control the unexpected energization or startup of machines when maintenance or service is being performed.

Appendix C – Safety Plan and Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.

Training and Qualification Verification: All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a worker's understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet-based courses).

Physical Access Control: Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:

- Locked door or gate
- Alarmed door
- Locked ladder access
- Restrictive Barrier at antenna (e.g. Chain link with posted RF Sign)

RF Signage: Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.

Assume all antennas are active: Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.

Maintain a 3 foot clearance from all antennas: There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.

Site RF Emissions Diagram: Section 4 of this report contains an RF Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas at the site. The modeling is a worst-case scenario assuming a duty cycle of 100% for each transmitting antenna at full power, unless otherwise noted. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.

Appendix D – RF Emissions

The RF Emissions Simulation(s) in this report display theoretical spatially averaged percentage of the Maximum Permissible Exposure for all systems at the site unless otherwise noted. These diagrams use modeling as prescribed in OET Bulletin 65 and assumptions detailed in Appendix E.

The key at the bottom of each RF Emissions Simulation indicates percentages displayed referenced to FCC General Public Maximum Permissible Exposure (MPE) limits. Color coding on the diagram is as follows:

- Areas indicated as Gray are predicted to be below 5% of the MPE limits. Gray represents areas more than 20 times below the most conservative exposure limit. **Gray areas are accessible to anyone.**
- Green represents areas are predicted to be between 5% and 100% of the MPE limits. **Green areas are accessible to anyone.**
- Blue represents areas predicted to exceed the General Public MPE limits but are less than Occupational limits. **Blue areas should be accessible only to RF trained workers.**
- Yellow represents areas predicted to exceed Occupational MPE limits. Yellow areas should be accessible only to RF trained workers able to assess current exposure levels.
- Red represents areas predicted to have exposure more than 10 times the Occupational MPE limits. **Red indicates that the RF levels must be reduced prior to access.** An RF Safety Plan is required which outlines how to reduce the RF energy in these areas prior to access.

If trained occupational personnel require access to areas that are delineated as above 100% of the limit, Sitesafe recommends that they utilize the proper personal protection equipment (RF monitors), coordinate with the carriers to reduce or shutdown power, or make real-time power density measurements with the appropriate power density meter to determine real-time MPE levels. This will allow the personnel to ensure that their work area is within exposure limits.

Appendix E – Assumptions and Definitions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at **full power at all times**. Software modeling was performed for all transmitting antennas located on the site. Sitesafe has assumed a 100% duty cycle or another duty cycle as noted in this report.

The modeling is based on recommendations from the FCC's OET-65 bulletin with the following variances per AT&T guidance. Reflection has not been considered in the modeling, i.e. the reflection factor is 1.0. The near / far field boundary has been set to 1.5 times the aperture height of the antenna and modeling beyond that point is the lesser of the near field cylindrical model and the far field model taking into account the gain of the antenna.

The site has been modeled with these assumptions to show the maximum RF energy density. Areas modeled with exposure greater than 100% of the General Public MPE level may not actually occur but are shown as a prediction that could be realized. Sitesafe believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor).

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model, or "Unknown" for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. If more specific information can be obtained for the unknown measurement criteria, Sitesafe recommends remodeling of the site utilizing the more complete and accurate data. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, Sitesafe uses the closest frequency in the antenna's range that corresponds to the highest Maximum Permissible Exposure (MPE), resulting in a conservative analysis.

Appendix F – Definitions

5% Rule – The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licensees whose transmitters produce field strengths or power density levels at the area in question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible for taking corrective actions to bring the site into compliance.

Compliance – The determination of whether a site complies with FCC standards with regards to Human Exposure to Radio Frequency Electromagnetic Fields from transmitting antennas.

Decibel (dB) – A unit for measuring power or strength of a signal.

Duty Cycle – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Effective Radiated Power (ERP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to a half-wave dipole antenna.

Gain (of an antenna) – The ratio of the maximum power in a given direction to the maximum power in the same direction from an isotropic radiator. Gain is a measure of the relative efficiency of a directional antenna as compared to an omnidirectional antenna.

General Population/Uncontrolled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are **unaware** of the potential for exposure and who have no control over their exposure. General Population is also referenced as General Public.

Generic Antenna – For the purposes of this report, the use of “Generic” as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use its industry specific knowledge of antenna models to select a worst-case scenario antenna to model the site.

Isotropic Antenna – An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.

Maximum Measurement – This measurement represents the single largest measurement recorded when performing a spatial average measurement.

Maximum Permissible Exposure (MPE) – The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.

Occupational/Controlled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are **aware** of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.

OET Bulletin 65 – Technical guideline developed by the FCC’s Office of Engineering and Technology to determine the impact of RF exposure on humans. The guideline was published in August 1997.

OSHA (Occupational Safety and Health Administration) – Under the Occupational Safety and Health Act of 1970, employers are responsible for providing a safe and healthy workplace for their employees. OSHA’s role is to promote the safety and health of America’s working men and women by setting and enforcing standards; providing training, outreach and education; establishing partnerships; and encouraging continual process improvement in workplace safety and health. For more information, visit www.osha.gov.

Radio Frequency Exposure or Electromagnetic Fields – Electromagnetic waves that are propagated from antennas through space.

Spatial Average Measurement – A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy a 6-foot tall human body will absorb while present in an electromagnetic field of energy.

Transmitter Power Output (TPO) – The radio frequency output power of a transmitter’s final radio frequency stage as measured at the output terminal while connected to a load.

Appendix G – References

The following references can be followed for further information about RF Health and Safety.

Site Safe, LLC

<http://www.sitesafe.com>

FCC Radio Frequency Safety

<http://www.fcc.gov/encyclopedia/radio-frequency-safety>

National Council on Radiation Protection and Measurements (NCRP)

<http://www.ncrponline.org>

Institute of Electrical and Electronics Engineers, Inc., (IEEE)

<http://www.ieee.org>

American National Standards Institute (ANSI)

<http://www.ansi.org>

Environmental Protection Agency (EPA)

<http://www.epa.gov/radtown/wireless-tech.html>

National Institutes of Health (NIH)

<http://www.niehs.nih.gov/health/topics/agents/emf/>

Occupational Safety and Health Agency (OSHA)

<http://www.osha.gov/SLTC/radiofrequencyradiation/>

International Commission on Non-Ionizing Radiation Protection (ICNIRP)

<http://www.icnirp.org>

World Health Organization (WHO)

<http://www.who.int/peh-emf/en/>

National Cancer Institute

<http://www.cancer.gov/cancertopics/factsheet/Risk/cellphones>

American Cancer Society (ACS)

http://www.cancer.org/docroot/PED/content/PED_1_3X_Cellular_Phone_Towers.asp?sitearea=PED

European Commission Scientific Committee on Emerging and Newly Identified Health Risks

http://ec.europa.eu/health/ph_risk/committees/04_scenihp/docs/scenihp_o_022.pdf

Fairfax County, Virginia Public School Survey

<http://www.fcps.edu/fts/safety-security/RFEESurvey/>

UK Health Protection Agency Advisory Group on Non-Ionizing Radiation

http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1317133826368

Norwegian Institute of Public Health

<http://www.fhi.no/dokumenter/545eea7147.pdf>



August 5, 2022

RE: Building Permit Application
Section 6409 Enclosures

Dear Sir/Madam:

AT&T seeks a building permit for the installation of transmission equipment on the existing facility on the building permit application included herein. Your building permit application form is submitted with this letter.

Introduction to Section 6409

AT&T applies for the building permit under Section 6409 of the federal Middle Class Tax Relief and Job Creation Act of 2012, signed into law by the President on February 22, 2012.¹ While your town retains discretionary zoning review over the construction of new towers, simple collocations and/or equipment upgrades such as reflected in this application must now be approved with the issuance of a building permit. The new law provides that:

“a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.” (Emphasis added.)

The federal law defines an “eligible facilities request” as “**(A) collocation of new transmission equipment;** (B) removal of transmission equipment; or (C) replacement of transmission equipment.” (Emphasis added.) The new law authorizes the immediate installation of these eligible facilities to help improve the economy, create jobs, and speed the deployment of the services they provide. A complete copy of Section 6409 of this new federal law is enclosed.

Section 6409 Benefits Your Community and has been Embraced Across the Country

Acknowledging that there is no valid basis in zoning to deny an application such as the one proposed here, municipalities across the nation have approved installations under Section 6409 with the issuance of a building permit. With the new federal law providing guidance, municipalities have been quick to embrace the benefits of a streamlined administrative review for simple collocations and equipment modifications. Unlike the construction of a new tower, simple collocations and/or equipment modifications such as this one have been quickly approved to expedite the deployment of wireless broadband. Municipalities want their residents, businesses and emergency responders to benefit from improved wireless coverage and the latest technology as quickly as possible.

¹ See February 2012 link located at <http://www.whitehouse.gov/briefing-room/signed-legislation>.



Application Must Be Approved

This application must be approved under this new federal law because the proposed installation involves “a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.”

This installation will not increase the height of the installation nor the dimensions of the equipment compound. The installation is similar to other existing facilities at the site. As a result, the installation “does not substantially change the physical dimensions of such tower or base station.” The installation will enhance wireless communication services to the community and will enable users to access a state-of-the-art, fully digital system for voice communications, messaging, and data transmission and reception.

We respectfully requests that the building permit be issued within thirty (30) days of the filing date so that we can proceed with this installation immediately. If we can provide any further information regarding this application, please let us know.

16 TITICUS MTN RD

Location 16 TITICUS MTN RD

Mblu 27/ 2/ 7.3/ 1

Acct# 00580500

Owner AMERICAN TOWERS INC

Assessment \$1,017,300

Appraisal \$1,453,400

PID 5837

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2022	\$1,196,200	\$257,200	\$1,453,400
Assessment			
Valuation Year	Improvements	Land	Total
2022	\$837,300	\$180,000	\$1,017,300

Owner of Record

Owner	AMERICAN TOWERS INC	Sale Price	\$359,641
Co-Owner	C/O AMERICAN TOWER CORPORATION	Certificate	
Address	PO BOX 723597 ATLANTA, GA 31139	Book & Page	0301/0274
		Sale Date	02/17/2000
		Instrument	

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
AMERICAN TOWERS INC	\$359,641		0301/0274		02/17/2000

Building Information

Building 1 : Section 1

Year Built: 1967
Living Area: 3,249
Replacement Cost: \$332,990
Building Percent Good: 34
Replacement Cost Less Depreciation: \$113,200

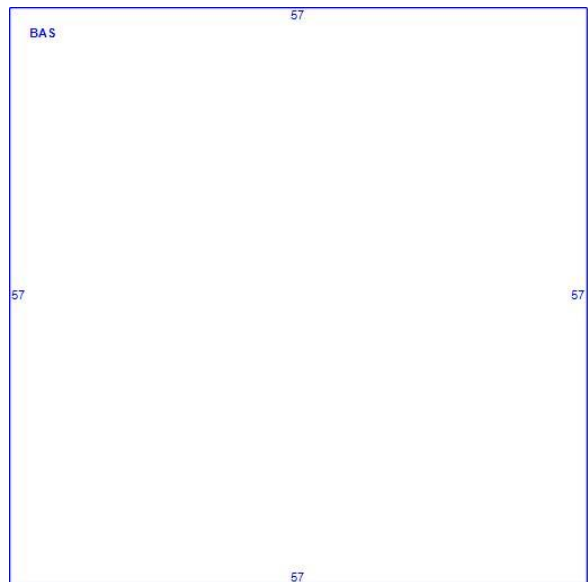
Building Attributes	
Field	Description
Style:	Tower support
Model	Commercial
Grade	C
Stories:	1
Occupancy	1.00
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Typical
Heating Type	None
AC Type	Central
Struct Class	
Bldg Use	Pub. Utility
1st Floor Use:	504
Heat/AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	SUSP-CEIL ONLY
Rooms/Prtns	AVERAGE
Wall Height	14.00
% Comn Wall	

Building Photo



(http://images.vgsi.com/photos/NewFairfieldCTPhotos//00100 \12\12.jpg)

Building Layout



(ParcelSketch.ashx?pid=5837&bid=5837)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	3,249	3,249
		3,249	3,249

Extra Features

Extra Features	<u>Legend</u>
No Data for Extra Features	

Land

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	PAVING-ASPHALT			3200.00 S.F.	\$1,700	1
SHD1	Shed			100.00 S.F.	\$1,300	1
CELL	Cell Tenant			4.00 UNITS	\$1,080,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$1,196,200	\$257,200	\$1,453,400
2020	\$1,196,200	\$257,200	\$1,453,400
2018	\$835,100	\$257,200	\$1,092,300

Assessment			
Valuation Year	Improvements	Land	Total
2021	\$837,300	\$180,000	\$1,017,300
2020	\$837,300	\$180,000	\$1,017,300
2018	\$584,600	\$180,000	\$764,600

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