COHEN and WOLF P.C.
ATTORNEYS AT LAW

JULIE D. KOHLER

PLEASE REPLY TO: Bridgeport
WRITER'S DIRECT DIAL: (203) 337-4157
E-Mail Address: jkohler@cohenandwolf.com

September 10, 2014

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Notice of Exempt Modification
Tarpon Towers/ Florida Tower Partners, LLC-T-Mobile co-location
Site ID CTNH808A
15 Orchard Park Road, Madison

Dear Attorney Bachman:

This office represents T-Mobile Northeast LLC ("T-Mobile") and has been retained to file exempt modification filings with the Connecticut Siting Council on its behalf.

In this case, Tarpon Tower/Florida Tower Partners, LLC owns the existing monopole telecommunications tower and related facility at 15 Orchard Park Road, Madison, Connecticut (latitude 41.28305, longitude -72.624333). T-Mobile intends to add three antennas and related equipment at this existing telecommunications facility in Madison ("Madison Facility"). Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction which 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 the First Selectman Fillmore McPherson, and the property owner, 15 Orchard Park Road, LLC.

The existing Madison Facility consists of a 99 foot tall monopole tower, approved by the Council in Docket No. 390.[1] T-Mobile plans to add three antennas and three RRUs at a centerline of 95 feet. (See the plans revised to August 29, 2014 attached hereto as Exhibit A). The existing Madison Facility is structurally capable of supporting T-Mobile's proposed modifications, as indicated in the structural analysis dated September 8 2014 and attached hereto as Exhibit B.

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

[1] The Decision and Order in this Docket (dated March 26, 2010) contains no relevant requirements or limitations on the configuration of the Madison Facility.

1115 Broad Street
P.O. Box 1821
Bridgeport, CT 06601-1821
Tel: (203) 368-0211
Fax: (203) 394-9901

158 Deer Hill Avenue
Danbury, CT 06810
Tel: (203) 792-2771
Fax: (203) 791-8149

320 Post Road West
Westport, CT 06880
Tel: (203) 222-1034
Fax: (203) 227-1373

657 Orange Center Road
Orange, CT 06477
Tel: (203) 298-4066
Fax: (203) 298-4068

1. The proposed modification will not increase the height of the tower. T-Mobile's additional antennas and equipment will be installed at a centerline of 95 feet. The enclosed tower drawing confirms that the proposed modification will not increase the height of the tower.

2. The proposed modifications will not require an extension of the site boundaries. T-Mobile's equipment will be located entirely within the existing compound area.

3. The proposed modification to the Madison Facility will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the replacement antennas will not increase the total radio frequency (RF) power density, measured at the base of the tower, to a level at or above the applicable standard. According to a Radio Frequency Emissions Analysis Report prepared by EBI dated September 9, 2014, T-Mobile's operations would add 14.68% of the FCC Standard. Therefore, the calculated "worst case" power density for the planned combined operation at the site including all of the proposed antennas would be 33.66% of the FCC Standard as calculated for a mixed frequency site as evidenced by the engineering exhibit attached hereto as Exhibit C.

For the foregoing reasons, T-Mobile respectfully submits that the proposed antennas and equipment at the Madison Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Upon acknowledgement by the Council of this proposed exempt modification, T-Mobile shall commence construction approximately sixty days from the date of the Council's notice of acknowledgement.

Sincerely,

Julie D. Kohler, Esq.

cc: Town of Madison, First Selectman Fillmore McPherson
Tarpon Tower\Florida Tower Partners, LLC
15 Orchard Park Road, LLC
Sheldon Freincle, NSS

EXHIBIT A

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE'S STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

KEY MAP
SCALE: N.T.S

1
LE–1

PROJECT : L700
CONFIGURATION
702CU

SUBMITTALS	
LE REV A	08.26.14
LE REV 0	08.29.14

ATLANTIS GROUP
1340 Centre Street
Suite 203
Newton, MA 02459
Office: 617-965-0789
Fax: 617-213-5056

LEASE EXHIBIT

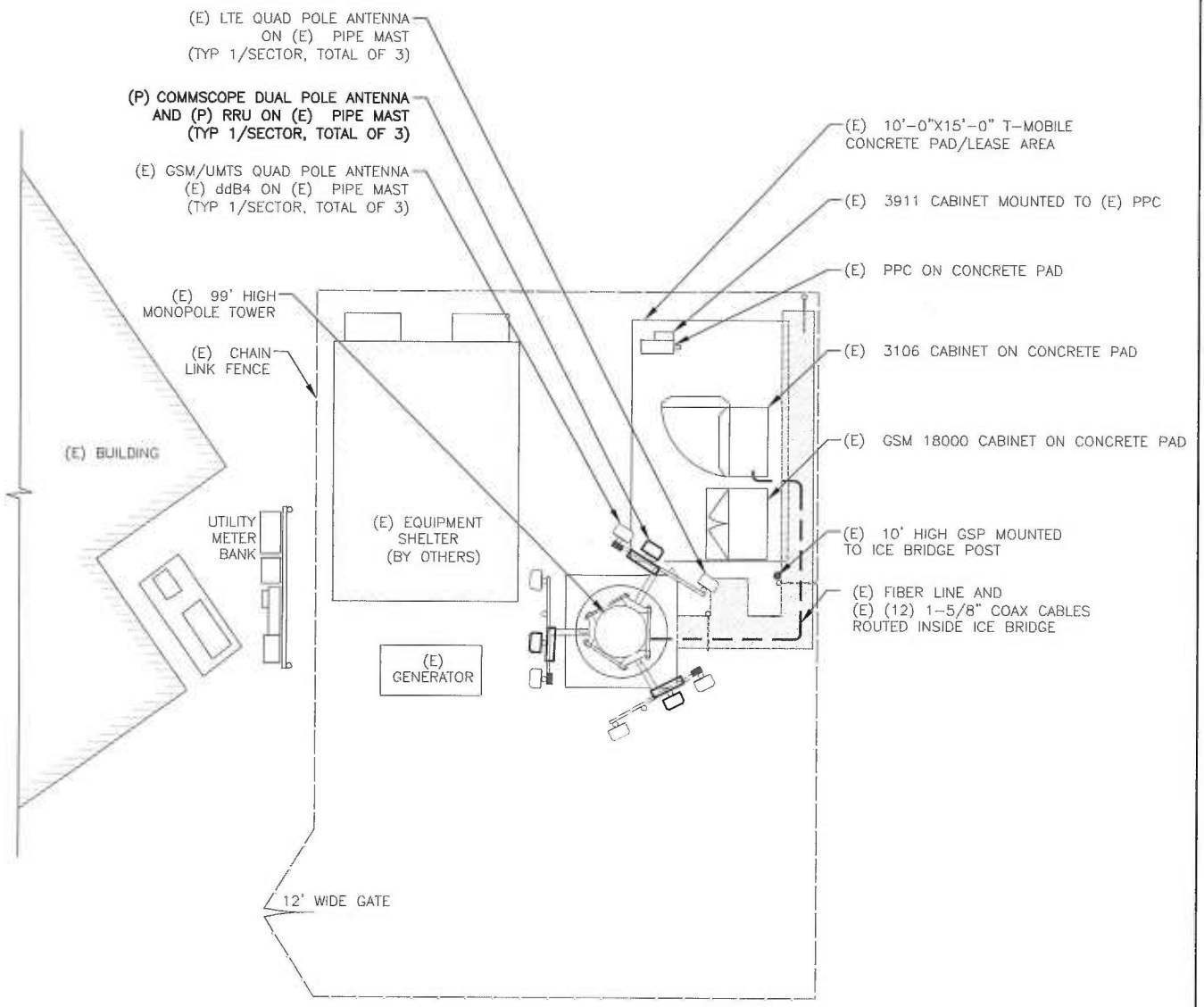
SITE NUMBER:
CTNH808A

SITE NAME:
AMTRAK_MADISON

SITE ADDRESS:
15 ORCHARD PARK ROAD
MADISON, CT, 06443

NORTHEAST SITE SOLUTIONS
54 MAIN STREET, UNIT 3
STURBRIDGE, MA 01566
(508) 434-5237
FOR
T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860) 692-7100
FAX: (860) 692-7159

DRAWN BY: FG | CHECKED BY: SM



SITE PLAN

SCALE: 1/16" = 1'-0"

1 / LE-2

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE'S STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

PROJECT : L700

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702CU

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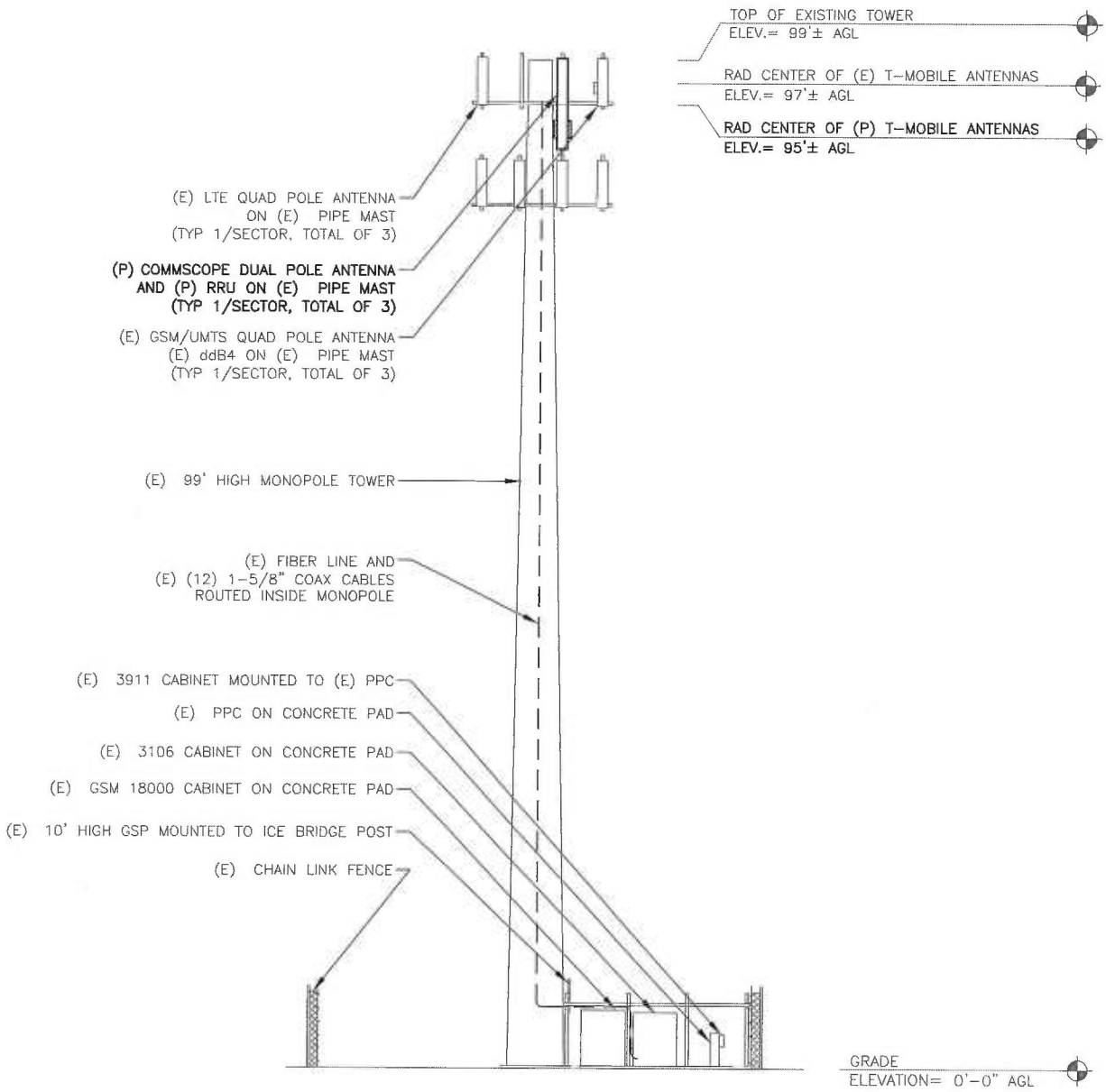
DRAWN BY: FG | CHECKED BY: SM



ELEVATION

SCALE: 1/16" = 1'-0"

1 / LE-3

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE'S STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

PROJECT : L700

CONFIGURATION

702CU

SUBMITTALS	
LE REV A	08.26.14
LE REV 0	08.29.14

ATLANTIS GROUP
1340 Centre Street
Suite 203
Newton, MA 02459
Office: 617-965-0789
Fax: 617-213-5056

LEASE EXHIBIT

SITE NUMBER:
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SITE NAME:
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35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860) 692-7100
FAX: (860) 692-7159

DRAWN BY: FG | CHECKED BY: SM

EXHIBIT B

Structural Analysis
99-ft Monopole

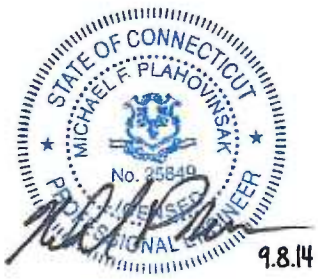
Prepared For:
Florida Tower Partners, LLC
1001 3rd Ave. West, Suite 420
Bradenton, FL 34205

MFP Project #40913-039 r3

Site Location:
CT-1014 / Madison
New Haven Co., Connecticut
Lat/Long: 41°16'59", -72°37'23"

Analysis Type:
ANSI/TIA-222-G
Structure Rating: 54.8% Passing

September 8, 2014



Michael F. Plahovinsak, P.E.
18301 State Route 161 W, Plain City, OH 43064
614-398-6250 - mike@mfpeng.com

Project Summary:

I have completed a structural analysis of the existing monopole for the following new configuration:

- 97' – T-Mobile:
  - (6) Ericsson AIR-21 + (3) Commscope LNX-6515DS Panel *(CL Elev 95')*
  - (3) Ericsson RRUS-11-B12 + (3) KRY-112-71 TMA
  - (13) 1 5/8"

The pole has been analyzed in accordance with the requirements of the International Building Code per IBC section 3108.4, and the recommendations of the Telecommunications Industry Association *"Structural Standard for Steel Antenna Supporting Structures"* **ANSI/TIA-222-G.**

This analysis may be considered a "Rigorous Structural Analysis" as defined in ANSI/TIA-222-G 15.5.2.

As indicated in the conclusions of this analysis, I have determined that the existing pole and foundation ***have sufficient capacity*** to support the existing, reserved and proposed antenna loads as detailed herein. Based on the results of my analysis, no structural modifications are required at this time.

Source of Data:

Resource	Source	Job Number	Date
Pole and Foundation Drawings	Sabre Towers	11-30257	03/23/11
Geotechnical Report	Terracon	J2095225	12/21/09

Analysis Criteria:

International Building Code (All Versions) Section 3108.4
Structural Standards for Steel Antenna Supporting Structures **ANSI/TIA-222-G 2**

- Basic Wind Speed 115 mph (3-Sec Gust)
- Basic Wind Speed w/ ¾" Ice 50 mph (3-Sec Gust)
- Operational Wind Speed 60 mph (3-Sec Gust)

Structure Class	Exposure Category	Topographic Category
II (I = 1.0)	B	I

Appurtenance Listing:

Status	Elev.	Antenna / Mounting	Coax	Owner
Proposed	*97'*	*(6) AIR-21 Panel + (3) LNX-6515DS Panel (CL Elev 95')* *(3) RRUS-11-B12 + (3) KRY-112-71 TMA* *T-Arm Mounts*	*(13) 1 5/8"*	*T-Mobile*
Existing	86'	(12) CCI HPA-65R-BUUH8 Panel (9) RRUS-11 + (6) RRUS-12 + (3) RRUS-32 + (6) RRUS-A2 (3) RRUS-E2 + (4) Raycap DC6-48-60-18-8-F Suppressors Platform With Handrail	(8) 3/4" + (2) 1/2" + (3) 3/8"	AT&T

All antenna lines assumed internally mounted, not exposed to the wind.

Foundation Analysis:

Two foundation alternatives were designed for this site. Both foundation alternatives have sufficient capacity to support the loads from this analysis.

Conclusion:

I have completed a structural analysis of the existing monopole and foundation in accordance with the project specifics outlined above. My analysis indicates that the existing monopole and foundation is stressed to a maximum of 54.8% of its usable capacity when considering the existing plus proposed loading. Please refer to the attached calculations for an itemized listing of all member stress ratios. The existing pole and foundation have sufficient capacity to support the proposed configuration, and structural modifications are not required.

If you have any questions about the contents of this structural report or require any additional information, please feel free to contact my office.

Sincerely,

Michael F. Plahovinsak, P.E.

mike@mfpeng.com - 614.398-6250

Standard Conditions for Providing Structural Consulting Services on Existing Structures

1. The following standard conditions are a general overview of key issues regarding the work product supplied.

2. If the existing conditions are not as represented in this structural report or attached sketches, I should be contacted to evaluate the significance of the deviation and revise the structural assessment accordingly.

3. The structural analysis has been performed assuming that the structure is in "like new" condition. No allowance was made for excessive corrosion, damaged or missing structural members, loose bolts, etc. If there are any known deficiencies in the structure that potentially compromise structural integrity, I should be made aware of the deficiencies. If I am aware of a deficiency that exists in a structure at the time of my analysis, a general explanation of the structural concern due to the deficiency will be included in the structural report, but the deficiency will not be reflected in capacity calculations.

4. The structural analysis provided is an assessment of the primary load carrying capacity of the structure. I provide a limited scope of service in that I have not verified the capacity of every weld, plate, connection detail, etc. In most cases, structural fabrication details are unknown at the time of my analysis, and the detailed field measurement of this information is beyond the scope of my services. In instances where I have not performed connection capacity calculations, it is assumed that existing manufactured connections develop the full capacity of the primary members being connected.

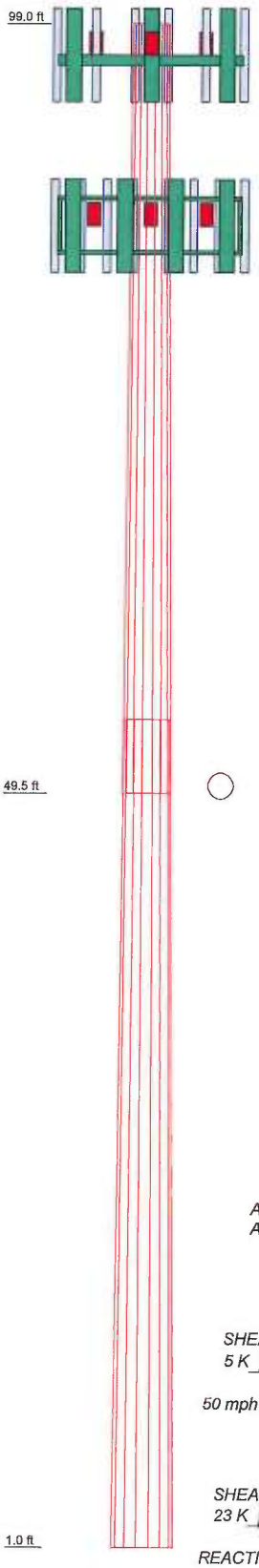
5. The structural integrity of the existing foundation system can only be verified if exact foundation sizes and soils conditions are known. I will not accept any responsibility for the adequacy of the existing foundations unless this site-specific data is supplied.

6. Miscellaneous items such as antenna mounts, coax supports, etc. have not been designed, detailed, or specified as part of my work. It is assumed that material of adequate size and strength will be purchased from a reputable component manufacturer. The attached report and sketches are schematic in nature and should not be used to fabricate or purchase hardware and accessories to be attached to the structure. I recommend field measurement of the structure before fabricating or purchasing new hardware and accessories. I am not responsible for proper fit and clearance of hardware and accessory items in the field.

7. The structural analysis has been performed considering minimum code requirements or recommendations. If alternate wind, ice, or deflection criteria are to be considered, then I shall be made aware of the alternate criteria.

Michael F. Plahovinsak, P.E. - 2014

mike@mfpeng.com



Section	1	2
Length (ft)	49.50	53.25
Number of Sides	18	18
Thickness (in)	0.3125	0.4375
Socket Length (ft)	4.75	
Top Dia (in)	27.2500	36.6960
Bot Dia (in)	38.3900	48.6800
Grade	A572-65	
Weight (K)	5.4	10.6

ALL REACTIONS ARE FACTORED

AXIAL 47 K
SHEAR 5 K
MOMENT 345 kip-ft

50 mph WIND - 0.7500 in ICE

AXIAL 30 K
SHEAR 23 K
MOMENT 1698 kip-ft

REACTIONS - 115 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) Ericsson AIR 21 w/ mount pipe (T-Mobile)	97	(3) Ericsson RRUS-11 (ATT)	86
Ericsson KRY 112 144-1 TMA (T-Mobile)	97	(2) Ericsson RRUS 12 (ATT)	86
Ericsson RRUS11 B12 (T-Mobile)	97	Ericsson RRUS-32 (ATT)	86
(2) Ericsson AIR 21 w/ mount pipe (T-Mobile)	97	(2) Ericsson RRUS A2 (ATT)	86
Ericsson KRY 112 144-1 TMA (T-Mobile)	97	Ericsson RRUS-E2 (ATT)	86
Ericsson RRUS11 B12 (T-Mobile)	97	(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	86
(2) Ericsson AIR 21 w/ mount pipe (T-Mobile)	97	(3) Ericsson RRUS-11 (ATT)	86
Ericsson KRY 112 144-1 TMA (T-Mobile)	97	(2) Ericsson RRUS 12 (ATT)	86
Ericsson RRUS11 B12 (T-Mobile)	97	Ericsson RRUS-32 (ATT)	86
T-Arm Mounts (T-Mobile)	97	(2) Ericsson RRUS A2 (ATT)	86
Andrew LNX-6515DS-VTM w/ mount pipe (T-Mobile)	95	Ericsson RRUS-E2 (ATT)	86
Andrew LNX-6515DS-VTM w/ mount pipe (T-Mobile)	95	(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	86
Andrew LNX-6515DS-VTM w/ mount pipe (T-Mobile)	95	(3) Ericsson RRUS-11 (ATT)	86
(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	86	(2) Ericsson RRUS 12 (ATT)	86
		Ericsson RRUS-32 (ATT)	86
		(2) Ericsson RRUS A2 (ATT)	86
		Ericsson RRUS-E2 (ATT)	86
		(4) Raycap DC6-48-60-18-8F Supressor (ATT)	86
		Platform w/ Handrail (ATT)	86

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-G Standard.
3. Tower designed for a 115 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 36%

Michael F. Plahovinsak, P.E.
18301 State Route 161 W
Plain City, OH 43064
Phone: 614-398-6250
FAX: mike@mfpeng.com

Job: ***99-ft Monopole / MFP #40913-039 r3***			
Project: ***CT1014, Madison***			
Client: Florida Tower Partners	Drawn by: Mike	App'd:	
Code: TIA-222-G	Date: 09/08/14	Scale: NTS	
Path: J:\Projects\409-Misc\40913-039\40913-039 r2.eri		Dwg No. E-1	

tnxTower

Michael F. Plahovinsak, P.E.
18301 State Route 161 W
Plain City, OH 43064
Phone: 614-398-6250
FAX: mike@mfpeng.com

Job	Page
99-ft Monopole / MFP #40913-039 r3	1 of 6
Project	**Date**
CT1014, Madison	11:46:59 09/08/14
Client	**Designed by**
Florida Tower Partners	Mike

Tower Input Data

This tower is designed using the TIA-222-G standard.
The following design criteria apply:

Tower is located in New Haven County, Connecticut.
Basic wind speed of 115 mph.
Structure Class II.
Exposure Category B.
Topographic Category 1.
Crest Height 0.00 ft.
Nominal ice thickness of 0.7500 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	99.00-49.50	49.50	4.75	18	27.2500	38.3900	0.3125	1.2500	A572-65 (65 ksi)
L2	49.50-1.00	53.25		18	36.6960	48.6800	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	27.6704	26.7186	2449.4369	9.5628	13.8430	176.9441	4902.0968	13.3619	4.2460	13.587
	38.9822	37.7681	6918.3045	13.5175	19.5021	354.7463	13845.7123	18.8876	6.2066	19.861
L2	38.3476	50.3495	8362.8112	12.8718	18.6416	448.6108	16736.6263	25.1795	5.6885	13.002
	49.4310	66.9907	19697.5334	17.1261	24.7294	796.5216	39420.9854	33.5017	7.7977	17.823

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
1 5/8" (T-Mobile)	C	No	Inside Pole	97.00 - 1.00	13	No Ice	0.00	0.92
						1/2" Ice	0.00	0.92
						1" Ice	0.00	0.92
***								
3/4" (ATT)	C	No	Inside Pole	86.00 - 1.00	8	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
						1" Ice	0.00	0.33
1/2" (ATT)	C	No	Inside Pole	86.00 - 1.00	2	No Ice	0.00	0.15
						1/2" Ice	0.00	0.15

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
3/8" (ATT)	C	No	Inside Pole	86.00 - 1.00	3	1" Ice	0.00	0.15
						No Ice	0.00	0.08
						1/2" Ice	0.00	0.08
						1" Ice	0.00	0.08

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) Ericsson AIR 21 w/ mount pipe	A	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	6.61 7.08	5.50 6.22	0.11 0.16
(T-Mobile)			0.00			1" Ice	7.55	6.95	0.22
Andrew LNX-6515DS-VTM w/ mount pipe	A	From Face	3.00 0.00	0.0000	95.00	No Ice 1/2" Ice	11.45 12.06	9.60 11.02	0.08 0.16
(T-Mobile)			0.00			1" Ice	12.69	12.29	0.26
Ericsson KRY 112 144-1 TMA	A	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	0.56 0.66	0.25 0.32	0.00 0.01
(T-Mobile)			0.00			1" Ice	0.78	0.41	0.01
Ericsson RRUS11 B12 (T-Mobile)	A	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	3.31 3.55	1.36 1.54	0.06 0.08
			0.00			1" Ice	3.80	1.73	0.10
(2) Ericsson AIR 21 w/ mount pipe	B	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	6.61 7.08	5.50 6.22	0.11 0.16
(T-Mobile)			0.00			1" Ice	7.55	6.95	0.22
Andrew LNX-6515DS-VTM w/ mount pipe	B	From Face	3.00 0.00	0.0000	95.00	No Ice 1/2" Ice	11.45 12.06	9.60 11.02	0.08 0.16
(T-Mobile)			0.00			1" Ice	12.69	12.29	0.26
Ericsson KRY 112 144-1 TMA	B	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	0.56 0.66	0.25 0.32	0.00 0.01
(T-Mobile)			0.00			1" Ice	0.78	0.41	0.01
Ericsson RRUS11 B12 (T-Mobile)	B	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	3.31 3.55	1.36 1.54	0.06 0.08
			0.00			1" Ice	3.80	1.73	0.10
(2) Ericsson AIR 21 w/ mount pipe	C	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	6.61 7.08	5.50 6.22	0.11 0.16
(T-Mobile)			0.00			1" Ice	7.55	6.95	0.22
Andrew LNX-6515DS-VTM w/ mount pipe	C	From Face	3.00 0.00	0.0000	95.00	No Ice 1/2" Ice	11.45 12.06	9.60 11.02	0.08 0.16
(T-Mobile)			0.00			1" Ice	12.69	12.29	0.26
Ericsson KRY 112 144-1 TMA	C	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	0.56 0.66	0.25 0.32	0.00 0.01
(T-Mobile)			0.00			1" Ice	0.78	0.41	0.01
Ericsson RRUS11 B12 (T-Mobile)	C	From Face	3.00 0.00	0.0000	97.00	No Ice 1/2" Ice	3.31 3.55	1.36 1.54	0.06 0.08
			0.00			1" Ice	3.80	1.73	0.10
T-Arm Mounts (T-Mobile)	C	None		0.0000	97.00	No Ice 1/2" Ice	14.00 16.00	14.00 16.00	1.14 1.27
						1" Ice	18.00	18.00	0.47
***									
(4) CCI HPA-65R-BUU-H8 w/ mount pipe	A	From Face	3.00 0.00	0.0000	86.00	No Ice 1/2" Ice	13.62 14.35	9.18 10.58	0.10 0.19
(ATT)			0.00			1" Ice	15.09	11.83	0.29
(3) Ericsson RRUS-11 (ATT)	A	From Face	3.00 0.00	0.0000	86.00	No Ice 1/2" Ice	2.55 2.77	0.92 1.07	0.05 0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1" Ice	2.99	1.23	0.08
(2) Ericsson RRUS 12 (ATT)	A	From Face	3.00	0.0000	86.00	No Ice	3.67	1.46	0.06
			0.00			1/2" Ice	3.92	1.64	0.08
			0.00			1" Ice	4.19	1.84	0.11
Ericsson RRUS-32 (ATT)	A	From Face	3.00	0.0000	86.00	No Ice	3.87	2.76	0.08
			0.00			1/2" Ice	4.15	3.02	0.10
			0.00			1" Ice	4.44	3.29	0.14
(2) Ericsson RRUS A2 (ATT)	A	From Face	3.00	0.0000	86.00	No Ice	1.87	0.50	0.03
			0.00			1/2" Ice	2.05	0.62	0.04
			0.00			1" Ice	2.24	0.75	0.05
Ericsson RRUS-E2 (ATT)	A	From Face	3.00	0.0000	86.00	No Ice	3.67	1.49	0.06
			0.00			1/2" Ice	3.93	1.67	0.08
			0.00			1" Ice	4.19	1.87	0.11
(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	B	From Face	3.00	0.0000	86.00	No Ice	13.62	9.18	0.10
			0.00			1/2" Ice	14.35	10.58	0.19
			0.00			1" Ice	15.09	11.83	0.29
(3) Ericsson RRUS-11 (ATT)	B	From Face	3.00	0.0000	86.00	No Ice	2.55	0.92	0.05
			0.00			1/2" Ice	2.77	1.07	0.06
			0.00			1" Ice	2.99	1.23	0.08
(2) Ericsson RRUS 12 (ATT)	B	From Face	3.00	0.0000	86.00	No Ice	3.67	1.46	0.06
			0.00			1/2" Ice	3.92	1.64	0.08
			0.00			1" Ice	4.19	1.84	0.11
Ericsson RRUS-32 (ATT)	B	From Face	3.00	0.0000	86.00	No Ice	3.87	2.76	0.08
			0.00			1/2" Ice	4.15	3.02	0.10
			0.00			1" Ice	4.44	3.29	0.14
(2) Ericsson RRUS A2 (ATT)	B	From Face	3.00	0.0000	86.00	No Ice	1.87	0.50	0.03
			0.00			1/2" Ice	2.05	0.62	0.04
			0.00			1" Ice	2.24	0.75	0.05
Ericsson RRUS-E2 (ATT)	B	From Face	3.00	0.0000	86.00	No Ice	3.67	1.49	0.06
			0.00			1/2" Ice	3.93	1.67	0.08
			0.00			1" Ice	4.19	1.87	0.11
(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	C	From Face	3.00	0.0000	86.00	No Ice	13.62	9.18	0.10
			0.00			1/2" Ice	14.35	10.58	0.19
			0.00			1" Ice	15.09	11.83	0.29
(3) Ericsson RRUS-11 (ATT)	C	From Face	3.00	0.0000	86.00	No Ice	2.55	0.92	0.05
			0.00			1/2" Ice	2.77	1.07	0.06
			0.00			1" Ice	2.99	1.23	0.08
(2) Ericsson RRUS 12 (ATT)	C	From Face	3.00	0.0000	86.00	No Ice	3.67	1.46	0.06
			0.00			1/2" Ice	3.92	1.64	0.08
			0.00			1" Ice	4.19	1.84	0.11
Ericsson RRUS-32 (ATT)	C	From Face	3.00	0.0000	86.00	No Ice	3.87	2.76	0.08
			0.00			1/2" Ice	4.15	3.02	0.10
			0.00			1" Ice	4.44	3.29	0.14
(2) Ericsson RRUS A2 (ATT)	C	From Face	3.00	0.0000	86.00	No Ice	1.87	0.50	0.03
			0.00			1/2" Ice	2.05	0.62	0.04
			0.00			1" Ice	2.24	0.75	0.05
Ericsson RRUS-E2 (ATT)	C	From Face	3.00	0.0000	86.00	No Ice	3.67	1.49	0.06
			0.00			1/2" Ice	3.93	1.67	0.08
			0.00			1" Ice	4.19	1.87	0.11
(4) Raycap DC6-48-60-18-8F Supressor (ATT)	C	None		0.0000	86.00	No Ice	1.47	1.47	0.03
						1/2" Ice	1.67	1.67	0.05
						1" Ice	1.88	1.88	0.07
Platform w/ Handrail (ATT)	C	None		0.0000	86.00	No Ice	24.00	24.00	2.53
						1/2" Ice	26.00	26.00	2.70
						1" Ice	28.00	28.00	2.87

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 90 deg - No Ice
5	0.9 Dead+1.6 Wind 90 deg - No Ice
6	1.2 Dead+1.6 Wind 180 deg - No Ice
7	0.9 Dead+1.6 Wind 180 deg - No Ice
8	1.2 Dead+1.0 Ice+1.0 Temp
9	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
10	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
11	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
12	Dead+Wind 0 deg - Service
13	Dead+Wind 90 deg - Service
14	Dead+Wind 180 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	99 - 49.5	Pole	Max Tension	4	0.00	0.00	0.00
			Max. Compression	8	-27.58	0.00	0.00
			Max. Mx	4	-15.13	-587.78	0.00
			Max. My	6	-15.13	0.00	-587.78
			Max. Vy	4	18.41	-587.78	0.00
			Max. Vx	6	18.41	0.00	-587.78
L2	49.5 - 1	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-46.62	0.00	0.00
			Max. Mx	4	-29.95	-1697.64	0.00
			Max. My	2	-29.95	0.00	1697.64
			Max. Vy	4	23.27	-1697.64	0.00
			Max. Vx	6	23.27	0.00	-1697.64

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	99 - 49.5	3.368	14	0.2708	0.0000
L2	54.25 - 1	1.081	14	0.1824	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
97.00	(2) Ericsson AIR 21 w/ mount pipe	14	3.251	0.2675	0.0000	113931
95.00	Andrew LNX-6515DS-VTM w/ mount pipe	14	3.135	0.2642	0.0000	113931
86.00	(4) CCI HPA-65R-BUU-H8 w/ mount pipe	14	2.620	0.2491	0.0000	43819

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	99 - 49.5	22.184	6	1.7844	0.0000
L2	54.25 - 1	7.120	2	1.2016	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
97.00	(2) Ericsson AIR 21 w/ mount pipe	6	21.418	1.7627	0.0000	17318
95.00	Andrew LNX-6515DS-VTM w/ mount pipe	6	20.653	1.7409	0.0000	17318
86.00	(4) CCI HPA-65R-BUU-H8 w/ mount pipe	2	17.256	1.6410	0.0000	6660

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	99 - 49.5 (1)	TP38.39x27.25x0.3125	49.50	0.00	0.0	36.7078	-15.13	2601.61	0.006
L2	49.5 - 1 (2)	TP48.68x36.696x0.4375	53.25	0.00	0.0	66.9907	-29.95	4849.69	0.006

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	99 - 49.5 (1)	TP38.39x27.25x0.3125	587.78	1978.72	0.297	0.00	1978.72	0.000
L2	49.5 - 1 (2)	TP48.68x36.696x0.4375	1697.64	4805.25	0.353	0.00	4805.25	0.000

tnxTower	Job	Page
Michael F. Plahovinsak, P.E. 18301 State Route 161 W Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com	99-ft Monopole / MFP #40913-039 r3	6 of 6
	Project CT1014, Madison	Date 11:46:59 09/08/14
	Client Florida Tower Partners	Designed by Mike

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	99 - 49.5 (1)	TP38.39x27.25x0.3125	18.41	1287.89	0.014	0.00	3962.28	0.000
L2	49.5 - 1 (2)	TP48.68x36.696x0.4375	23.27	2404.07	0.010	0.00	9622.25	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	99 - 49.5 (1)	0.006	0.297	0.000	0.014	0.000	0.303 ✔	1.000	4.8.2 ✔
L2	49.5 - 1 (2)	0.006	0.353	0.000	0.010	0.000	0.360 ✔	1.000	4.8.2 ✔

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	99 - 49.5	Pole	TP38.39x27.25x0.3125	1	-15.13	2601.61	30.3	Pass
L2	49.5 - 1	Pole	TP48.68x36.696x0.4375	2	-29.95	4849.69	36.0	Pass
							Summary	
						Pole (L2)	36.0	Pass
						RATING =	**36.0**	**Pass**

Michael F. Plahovinsak, P.E.
18301 State Route 161 W
Plain City, OH 43064
Phone: 614-398-6250
email: mike@mfpeng.com

Job	Page
99-ft monopole - MFP #40913-039	BP-G
Project	**Date**
CT1014, Madison	9/8/2014
Client	**Designed by**
FLORIDA TOWER PARTNERS	Mike

Anchor Rod and Base Plate Calculation

ANSI/TIA-222-G-2

Factored Base Reactions:		*Pole Shape:*	*Anchor Rods:*	*Base Plate:*
Moment:	1698 ft-kips	18-Sided	(16) 2.25 in. A615 GR. 75	3 in. x 55.5 in. Square
Shear:	23 kips	*Pole Dia. (D_f):*	Anchor Rods in Quadrants	fy = 50 ksi
Axial:	30 kips	48.68 in	On a 55 in Bolt Circle	

Anchor Rod Calculation According to TIA-222-G section 4.9.9

ϕ = 0.80 TIA 4.9.9

I_{bolts} = 6050.00 in^2 Momet of Inertia

P_u = 93 kips Tension Force

V_u = 1 kips Shear Force

R_{nt} = 325.00 kips Nominal Tensile Strength

η = 0.50 for detail type (d)

The following Interation Equation Shall Be Satisfied:

$$\left(\frac{P_u + \frac{V_u}{\eta}}{\phi R_{nt}} \right) \leq 1.0$$

$$0.367 \leq 1$$

Base Plate Calculation According to TIA-222-G

ϕ = 0.90 TIA 4.7

M_{PL} = 769.2 in-kip Plate Moment

L = 29.8 in Section Length

Z = 67.1 Plastic Section Modulus

M_P = 3353.5 in-kip Plastic Moment

ϕM_n = 3018.1 in-kip Factored Resistance

Calculated Moment vs Factored Resistance

769.17 in-kip $\leq$ 3018 in-kip

Anchor Rods Are Adequate	**36.7%**	☑
Base Plate is Adequate	**25.5%**	☑

Michael F. Plahovinsak, P.E.
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Plain City, OH 43064
Phone: 614-398-6250
email: mike@mfpeng.com

Job	Page
99-ft monopole - MFP #40913-039	FND
Project	**Date**
CT1014, Madison	9/8/2014
Client	**Designed by**
FLORIDA TOWER PARTNERS	Mike

Caisson Calculation

According to ANSI/TIA-222-G-2

1. Foundation overturning resistance calculated with PLS Caisson, for Brom's method for rigid piles. Soil layers modeled after recommendations from the geotechnical report.
2. Cohesion strength for the upper 15.5 ft has been reduced by 50%
3. In lieu of a soil resistance factor fs = 0.75 (TIA-9.4.1) an additional safey fator against soil failure of 1.33 has been applied.
4. Foundation is designed with a minimum safety factor resisting overturning of 2.0
5. Foundation has been designed with factored loads per TIA-222-G.
6. Design water table = 8 ft below grade

*** PIER PROPERTIES CONCRETE STRENGTH (ksi) = 4.00 STEEL STRENGTH (ksi) = 60.00

DIAMETER (ft) = 7.000 DISTANCE FROM TOP OF PIER TO GROUND LEVEL (ft) = 1.00

*** SOIL PROPERTIES

LAYER	TYPE	THICKNESS (ft)	DEPTH AT TOP OF LAYER (ft)	DENSITY (pcf)	CU (psf)	KP	PHI (degrees)
1	S	4.00	0.00	0.0		1.000	-0.00
2	S	2.00	4.00	100.0		1.698	14.99
3	S	2.00	6.00	110.0		3.000	30.00
4	S	7.50	8.00	47.6		3.000	30.00
5	C	30.00	15.50	67.6	6000.0		

*** DESIGN (FACTORED) LOADS AT TOP OF PIER MOMENT (ft-k) = 1698.0 VERTICAL (k) = 30.0 SHEAR (k) = 23.0
ADDITIONAL SAFETY FACTOR AGAINST SOIL FAILURE = 1.33

*** CALCULATED PIER LENGTH (ft) = 20.000

*** CHECK OF SOILS PROPERTIES AND ULTIMATE RESISTING FORCES ALONG PIER

TYPE	TOP OF LAYER BELOW TOP OF PIER (ft)	THICKNESS (ft)	DENSITY (pcf)	CU (psf)	KP	FORCE (k)	ARM (ft)
S	1.00	4.00	0.0		1.000	0.00	3.67
S	5.00	2.00	100.0		1.698	7.13	6.33
S	7.00	2.00	110.0		3.000	39.06	8.12
S	9.00	7.50	47.6		3.000	282.79	13.12
C	16.50	1.31	67.6	6000.0		439.03	17.15
C	17.81	2.19	67.6	6000.0		-736.97	18.90

*** SHEAR AND MOMENTS ALONG PIER

DISTANCE BELOW TOP OF PIER (ft)	WITH THE ADDITIONAL SAFETY FACTOR SHEAR (k)	WITH THE ADDITIONAL SAFETY FACTOR MOMENT (ft-k)	WITHOUT ADDITIONAL SAFETY FACTOR SHEAR (k)	WITHOUT ADDITIONAL SAFETY FACTOR MOMENT (ft-k)
0.00	31.0	2327.0	23.3	1745.7
2.00	31.0	2389.1	23.3	1792.3
4.00	31.0	2451.2	23.3	1838.9
6.00	29.3	2512.7	22.0	1885.0
8.00	7.8	2556.0	5.9	1917.5
10.00	-43.1	2524.1	-32.3	1893.5
12.00	-108.0	2375.0	-81.0	1781.7
14.00	-184.9	2084.0	-138.7	1563.4
16.00	-273.8	1627.3	-205.4	1220.7
18.00	-672.0	672.0	-504.1	504.1
20.00	0.0	-0.0	0.0	-0.0

*** TOTAL REINFORCEMENT PCT = 0.42 REINFORCEMENT AREA (in^2) = 23.28
*** USABLE AXIAL CAP. (k) = 30.0 USABLE MOMENT CAP. (ft-k) = 3670.4

Est. Foundation Usage 54.8%

Minimum Steel Per ACI-318 17.85 in^2

7-ft Diameter caisson x 22-ft long (21-ft Embeded with 1-ft above grade) W/(36) #8 Vertical Rebar. Concrete strength =4000 PSI @ 28 days. Estimated Concrete Volume = 31 cubic yards.

EXHIBIT C

EBI Consulting
environmental | engineering | due diligence

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CTNH808A

Amtrak Madison
15 Orchard Park Road
Madison, CT 06443

September 9, 2014

EBI Project Number: 62141109

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	33.66 %

21 B Street · Burlington, MA 01803 · Tel: (781) 273.2500 · Fax: (781) 273.3311

EBI Consulting
environmental | engineering | due diligence

September 9, 2014

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CTNH808A – Amtrak Madison**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **15 Orchard Park Road, Madison, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μW/cm2). The number of $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu W/cm^2$). The general population exposure limit for the 700 MHz Band is 467 $\mu W/cm^2$, and the general population exposure limit for the PCS and AWS bands is 1000 $\mu W/cm^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at **15 Orchard Park Road, Madison, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel

2) 2 UMTS channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

3) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

4) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.

5) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

6) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

7) The antennas used in this modeling are the **Ericsson AIR21 B4A/B2P** for 1900 MHz (PCS) and 2100 MHz (AWS) channels and the **Commscope LNX-6515DS-VTM** for 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **Ericsson AIR21 B4A/B2P** has a maximum gain of **15.9 dBd** at its main lobe. The **Commscope LNX-6515DS-VTM** has a maximum gain of **14.6 dBd** at its main lobe. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

8) The antenna mounting height centerlines of the proposed antennas are **97 feet and 95 feet** above ground level (AGL).

9) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculations were done with respect to uncontrolled / general public threshold limits.

EBI Consulting

environmental | engineering | due diligence

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	97	Height (AGL):	97	Height (AGL):	97
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	2	Channel Count	2	# PCS Channels:	2
Total TX Power:	120	Total TX Power:	120	# AWS Channels:	120
ERP (W):	1,906.06	ERP (W):	1,906.06	ERP (W):	1,906.06
Antenna A1 MPE%	2.03	Antenna B1 MPE%	2.03	Antenna C1 MPE%	2.03
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	97	Height (AGL):	97	Height (AGL):	97
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power:	120	Total TX Power:	120	Total TX Power:	120
ERP (W):	1,906.06	ERP (W):	1,906.06	ERP (W):	1,906.06
Antenna A2 MPE%	2.03	Antenna B2 MPE%	2.03	Antenna C2 MPE%	2.03
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	95	Height (AGL):	95	Height (AGL):	95
Frequency Bands	700 Mhz	Frequency Bands	700 Mhz	Frequency Bands	700 Mhz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power:	30	Total TX Power:	30	Total TX Power:	30
ERP (W):	445.37	ERP (W):	445.37	ERP (W):	445.37
Antenna A3 MPE%	0.84	Antenna B3 MPE%	0.84	Antenna C3 MPE%	0.84

Site Composite MPE%	
Carrier	**MPE%**
T-Mobile	**14.68**
AT&T	18.98 %
Site Total MPE %:	**33.66 %**

T-Mobile Sector 1 Total:	4.89 %
T-Mobile Sector 2 Total:	4.89 %
T-Mobile Sector 3 Total:	4.89 %
Site Total:	33.66 %

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Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general public exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector 1:	4.89 %
Sector 2:	4.89 %
Sector 3 :	4.89 %
T-Mobile Total:	14.68 %
Site Total:	33.66 %
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **33.66%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

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