

10 INDUSTRIAL AVE, SUITE 3 MAHWAH NJ 07430

PHONE: 201.684.0055 FAX: 201.684.0066

July 20, 2016

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

Notice of Exempt Modification 35 Wildwood Street, New Britain, CT 06051 Latitude- 41.66823900 Longitude- -72.75495500

Dear Ms. Bachman,

T-Mobile currently maintains (9) existing antennas at the 100' level of the existing 110' monopole at 35 Wildwood Street in New Britain. The tower is owned by AT&T Wireless. The property is owned by the City of New Britain. T-Mobile now intends to replace (3) of its existing antennas with (3) new 1900 MHz antennas. These antennas would be installed at the same 100' level of the tower. T-Mobile also intends to install (1) new hybrid fiber cable.

This facility was approved by the Council in Petition No. 850 on March 13, 2008. This approval did not include conditions that would be violated by this modification. This modification complies with the approval.

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 Ms. Erin Stewart, Mayor of the City of New Britain, as well as the property owner and tower owner.

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

- 1. The proposed modification 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 modification 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.

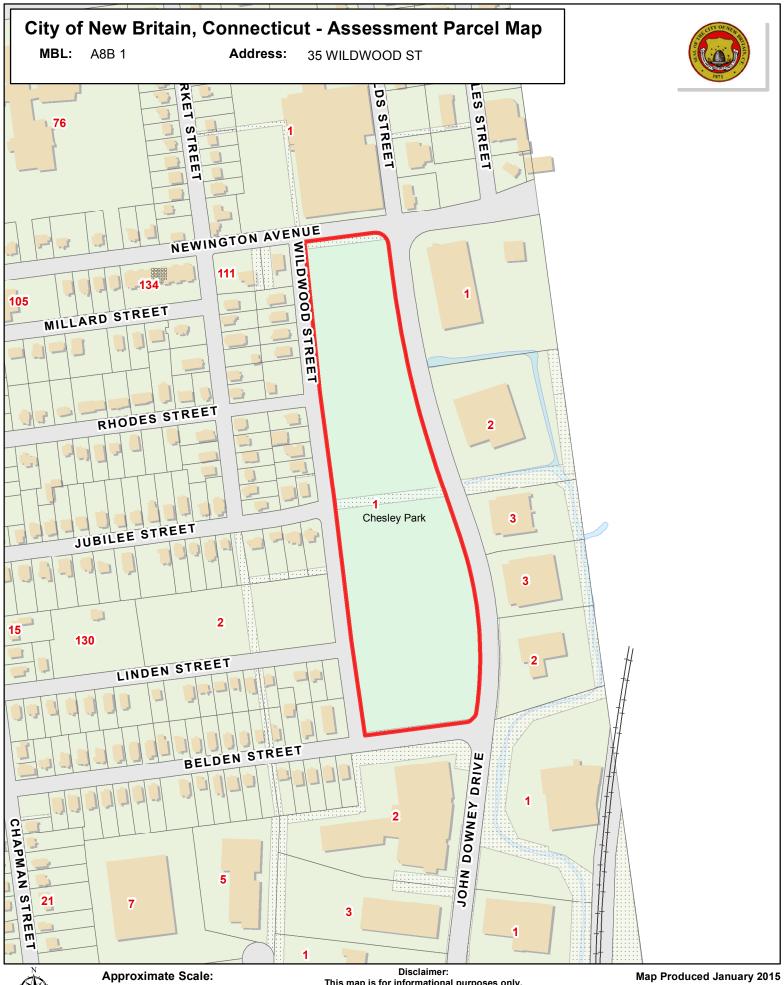
For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A. 16-50j-72(b)(2).

Sincerely,

Kyle Richers

Kyle Richers Transcend Wireless 10 Industrial Ave., Suite 3 Mahwah, New Jersey 07430 908-447-4716 krichers@transcendwireless.com

cc: Erin Stewart- as elected official
AT&T- as tower owner
City of New Britain- as property owner





35 WILDWOOD ST

Location 35 WILDWOOD ST **Mblu** A8B/ 1/ / /

Acct# 91200035 Owner NEW BRITAIN CITY OF -

PARK

Assessment \$1,632,330 **Appraisal** \$2,331,900

PID 1830 Building Count 1

Current Value

Appraisal						
Valuation Year Improvements Land Total						
2012	\$1,646,900	\$685,000	\$2,331,900			
	Assessment					
Valuation Year	Improvements	Land	Total			
2012	\$1,152,830	\$479,500	\$1,632,330			

Owner of Record

Owner NEW BRITAIN CITY OF - PARK Sale Price \$0

Co-OwnerCHESLEY PARKCertificateAddress27 WEST MAIN STBook & Page

NEW BRITAIN, CT 06051 Sale Date 01/01/1900

Ownership History

Ownership History					
Owner Sale Price Certificate Book & Page Sale Date					
NEW BRITAIN CITY OF - PARK	\$0			01/01/1900	

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0
Replacement Cost: \$0

Building Percent

Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes			
	Field	Description	

Style	Outbuildings
Model	
Grade	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Central Heat Sys	
AC Type	
Total Bedrooms	
Total Full Baths	
Total Half Baths	
Total Xtra Fixtrs	
Total Rooms	
Bath Style	
Kitchen Style	
Whirlpool Tub	
Fireplaces	
Rec Room Finish	
Rec Room Qual	
Bsmt Garages	
Bldg Nbhd	

Building Photo



(http://images.vgsi.com/photos/NewBritainCTPhotos//\00\02\14

Building Layout

Building Layout

Building Sub-Areas (sq ft)	<u>Legend</u>

No Data for Building Sub-Areas

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use Land Line Valuation		tion	
Use Code	903A	Size (Acres)	11.85
Description	Mun Park MDL-00	Depth	
Zone	Т	Assessed Value	\$479,500
Neighborhood	107	Appraised Value	\$685,000

Outbuildings

	Outbuildings					Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
TEN1	Tennis Crt Asp			4 Units	\$96,600	1
PAV1	Paving Asphalt			50000 S.F.	\$48,000	1
FN5	Fence-10' Chai			888 L.F.	\$13,600	1
TR2	RestRoom stone			2697 S.F.	\$354,000	1
TR2	RestRoom stone			1875 S.F.	\$246,100	1
FN1	Fence - Chain			4000 L.F.	\$28,600	1
CAN4	Canopy rf/slb			800 S.F.	\$9,600	1
СВЗ	PreCastConcCel			240 S.F.	\$55,400	1
FN1	Fence - Chain			100 L.F.	\$700	1
СВ4	PreCastConcCel			360 S.F.	\$74,300	1
SPL7	Pool			10000 S.F.	\$720,000	1

Valuation History

Appraisal						
Valuation Year Improvements Land Total						
2015	\$1,646,900	\$685,000	\$2,331,900			
2014	\$1,646,900	\$685,000	\$2,331,900			
2013	\$1,646,900	\$685,000	\$2,331,900			

Assessment					
Valuation Year Improvements Land Total					
2015	\$1,152,830	\$479,500	\$1,632,330		
2014	\$1,152,830	\$479,500	\$1,632,330		
2013	\$1,152,830	\$479,500	\$1,632,330		

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

T-Mobile Existing Facility

Site ID: CT11634C

CT634/Cing/ChesleyPark_ET 35 Wildwood Street New Britain, CT 06051

July 13, 2016

EBI Project Number: 6216003229

Site Compliance Summary		
Compliance Status:	COMPLIANT	
Site total MPE% of FCC general public allowable limit:	15.57 %	



July 13, 2016

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

Emissions Analysis for Site: CT11634C - CT634/Cing/ChesleyPark_ET

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **35 Wildwood Street**, **New Britain**, **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 (μ W/cm²). The number of μ W/cm² 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 (μ W/cm²). The general population exposure limit for the 700 MHz Band is approximately 467 μ W/cm², and the general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS) bands is 1000 μ W/cm². 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 **35 Wildwood Street, New Britain, 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 (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 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.
- 4) 2 LTE channels (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 5) 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
- 6) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.



- 7) Since the 2100 MHz UMTS radios are ground mounted there are additional cabling losses accounted for. For each ground mounted 2100 MHz UMTS RF path an additional 1.57 dB of additional cable loss was calculated for all ground mounted 2100 MHz channels. This is based on manufacturers Specifications for 148 feet of 1-5/8" coax cable on each path.
- 8) 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.
- 9) For the following calculations the sample point was the top of a 6-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.
- 10) The antennas used in this modeling are the Ericsson AIR32 B66Aa/B2P & Ericsson AIR21 B2A/B4P 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 AIR32 B66Aa/B2P has a maximum gain of 15.9 dBd at its main lobe at 1900 MHz and 2100 MHz. The Ericsson AIR21 B2A/B4P has a maximum gain of 15.9 dBd at its main lobe at 1900 MHz and 2100 MHz. The Commscope LNX-6515DS-VTM has a maximum gain of 14.6 dBd at its main lobe at 700 MHz. 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.
- 11) The antenna mounting height centerline of the proposed antennas is **100 feet** above ground level (AGL).
- 12) 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.
- 13) All calculations were done with respect to uncontrolled / general public threshold limits.



T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	В	Sector:	С
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR32 B66Aa/B2P	Make / Model:	Ericsson AIR32 B66Aa/B2P	Make / Model:	Ericsson AIR32 B66Aa/B2P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	100	Height (AGL):	100	Height (AGL):	100
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(W):	240	Total TX Power(W):	240	Total TX Power(W):	240
ERP (W):	9,337.08	ERP (W):	9,337.08	ERP (W):	9,337.08
Antenna A1 MPE%	3.80	Antenna B1 MPE%	3.80	Antenna C1 MPE%	3.80
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	100	Height (AGL):	100	Height (AGL):	100
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	6	Channel Count	6	Channel Count	6
Total TX Power(W):	180	Total TX Power(W):	180	Total TX Power(W):	180
ERP (W):	6,294.66	ERP (W):	6,294.66	ERP (W):	6,294.66
Antenna A2 MPE%	2.56	Antenna B2 MPE%	2.56	Antenna C2 MPE%	2.56
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):	100	Height (AGL):	100	Height (AGL):	100
Frequency Bands	700 MHz	Frequency Bands	700 MHz	Frequency Bands	700 MHz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power(W):	30	Total TX Power(W):	30	Total TX Power(W):	30
ERP (W):	865.21	ERP (W):	865.21	ERP (W):	865.21
Antenna A3 MPE%	0.75	Antenna B3 MPE%	0.75	Antenna C3 MPE%	0.75

Site Composite MPE%									
Carrier	MPE%								
T-Mobile (Per Sector Max)	7.11 %								
AT&T	2.77 %								
Clearwire	0.22 %								
Clearwire MW dishes	0.46 %								
Verizon Wireless	5.01 %								
Site Total MPE %:	15.57 %								

T-Mobile Sector A Total:	7.11 %
T-Mobile Sector B Total:	7.11 %
T-Mobile Sector C Total:	7.11 %
Site Total:	15.57 %

T-Mobile _per sector	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (µW/cm²)	Frequency (MHz)	Allowable MPE (µW/cm²)	Calculated % MPE
T-Mobile AWS - 2100 MHz LTE	2	2,334.27	100	18.99	AWS - 2100 MHz	1000	1.90 %
T-Mobile PCS - 1900 MHz LTE	2	2,334.27	100	18.99	PCS - 1900 MHz	1000	1.90 %
T-Mobile AWS - 2100 MHz UMTS	2	813.06	100	6.62	AWS - 2100 MHz	1000	0.66 %
T-Mobile PCS - 1950 MHz UMTS	2	1,167.14	100	9.50	PCS - 1950 MHz	1000	0.95 %
T-Mobile PCS - 1950 MHz GSM	2	1,167.14	100	9.50	PCS - 1950 MHz	1000	0.95 %
T-Mobile 700 MHz LTE	1	865.21	100	3.52	700 MHz	467	0.75 %
						Total:	7.11 %



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 A:	7.11 %
Sector B:	7.11 %
Sector C:	7.11 %
T-Mobile Per Sector	7.11 %
Maximum:	
Site Total:	15.57 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **15.57%** 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.





1455 Lincoln Parkway, Suite 500

Morrison Hershfield

Atlanta, GA 30346

(770) 379-8500

Ms. Deborah Krenc AT&T Towers 2300 Northlake Center Drive, Suite 405 Tucker, GA 30084-4032 (404) 532-5837

Date: June 30, 2016

Subject:

2016

AT&T Designation:

Site USID: 88241-A **Site FA**: 10050945

Structural Analysis Report

Site Name: NEW BRITAIN WILDWOOD STREET

Carrier: T-Mobile Carrier Site Number: CT11634C

Carrier Site Name: CT634/Cing/Chesley Park_ET

Site Address: Wildwood Street, New Britain, Hartford County, CT 06051
Site Coordinates: Latitude: 41° 40' 5.47" N, Longitude: 72° 45' 18.72" W

Tower Description: 110 ft – Monopole Tower

Morrison Hershfield Project Number: ATT-664 / 7160003

Dear Ms. Krenc,

Morrison Hershfield has carried out a structural analysis of the above referenced structure for the existing and proposed antenna and equipment noted. This analysis has been performed in accordance with the TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a fastest mile wind speed of 80 mph, meeting the requirements of 2005 CT State Building Code with 2009 Amendment. This analysis is subject to the assumptions noted.

Our analysis demonstrates that the existing tower and foundation ARE in conformance (tower at 99.7% and foundation at 76.1%) with the requirements of the above noted standards under the effects of loading described.

We at *Morrison Hershfield* appreciate the opportunity of providing our continuing professional services to you and AT&T Towers. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully Submitted by: Morrison Hershfield



G. Lance Cooke, P.E. (CT License No. PEN.0028133) Senior Engineer Job Number: ATT-664 June 30, 2016
Project Number: 7160003 Page 2

INTRODUCTION

This tower is a 110 ft monopole, and the original drawings are not available. The tower geometry and member sizes have been obtained from the structural analysis completed by B+T Group, Project #: 84498.003.01a, dated 03/04/2015 and are considered to be accurate. Yield strengths of 65-ksi for the monopole shaft, 50-ksi for the base plate and 75-ksi anchor bolts have been assumed based on experience with similar towers.

This structural analysis was performed in accordance with the requirements of 2005 CT State Building Code with 2009 Amendment and the TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a fastest mile wind speed of 80 mph with no radial ice, 38 mph with 1" radial ice thickness and 50 mph under service conditions.

The structural analysis was based on the following documentation:

Documentation

Document	Description	Source
Previous Structural Analysis	B+T Group, Project #: 84498.003.01a, dated 03/04/2015	Siterra
Previous Structural Analysis	B+T Group, Project #: 85026.001, dated 08/23/2012	Siterra
Previous Structural Analysis	GPD Associates, Project #: 2009285.35, dated 11/09/2009	Siterra
Site Lease Application	T-Mobile, Site #: CT11634C, dated 04/27/2016	Siterra

1.0 ANALYSIS LOADING

The existing and proposed antennas, transmission lines, and other equipment considered in this analysis were provided by the client and are noted in the attachments.

ANALYSIS PROCEDURE

tnxTower Version 7.0.6.2, a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is attached at the end of this report.

2.0 ASSUMPTIONS

The analysis provided by Morrison Hershfield is based on the theoretical capacity of the structure and is not a condition assessment of the tower. Morrison Hershfield has not performed an engineering inspection of the tower and the analysis was completed based on information supplied by the client. Morrison Hershfield has not made any independent determination of the accuracy of the information provided.

- 1) Tower and structures were built in accordance with the manufacturer's specifications and the applicable ANSI/TIA/EIA standard.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The tower is assumed to be in good condition and capable of supporting its full design capacity.
- 4) The foundation was properly designed and constructed for the original design loads.
- 5) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in the attached Tower Analysis Summary Form.
- 6) All existing/proposed antennas and antenna mounts are assumed to be adequate for the existing/proposed loads. Analysis of these antennas and antenna mounts is considered to be outside of the scope of this analysis. Morrison Hershfield has not performed an analysis of the existing/proposed antennas or antenna mounts.
- 7) Existing and proposed loading for T-Mobile is per their Site Lease Application, Site #: CT11634C, dated 04/27/2016, and is considered to be correct
- 8) The remaining existing loading is taken from the previous structural analysis completed by B+T Group, Project #: 84498.003.01a, dated 03/04/2015, and is considered to be correct.

Job Number: ATT-664 June 30, 2016
Project Number: 7160003 Page 3

9) Future loading for AT&T Mobility is per Generic AT&T Reserve Loading Requirements, and is considered to be correct.

10) Original tower and foundation drawings were not available. The tower geometry and foundation details has been taken from the previous structural analysis completed by B+T Group, Project #: 4498.003.01a, dated 03/04/2015.

If any assumptions are not valid or have been made in error, this analysis is invalid. Morrison Hershfield should be notified to determine the effect on the structural integrity of the tower.

3.0 SUMMARY OF RESULTS

The following tables summarize the location and utilized percentage of available capacity for each component of the tower. With consideration to the appropriate safety factors, 100% represents the full capacity of the component. Percentages below 100% indicate available capacity and conformance of the component. Percentages above 100% indicate an overstressed situation requiring structural modification to ensure conformance with the applicable codes and standards.

Based on our analysis results, the **tower and foundation ARE within capacity** to support the loads under the current loading scenario.

Tower Section Capacity

Section No.	Elevation ft	Component Type	Size	% Capacity	Pass Fail
L1	110 - 88.75	Pole	TP24.83x21x0.19	38.6	Pass
L2	88.75 - 47	Pole	TP31.99x23.87x0.25	87.0	Pass
L3	47 - 0	Pole	TP39.93x30.77x0.31	99.7	Pass
				Summary	
				99.7	Pass
				99.7	Pass

Capacity of Additional Components

Component	% Capacity	Pass/Fail			
Anchor Bolts	72.2	Pass			
Base Plate	86.5	Pass			
Spread Footing Bearing	50.4	Pass			
Spread Footing Overturning	76.1	Pass			

4.0 RECOMMENDATIONS

1. All assumptions made in this analysis should be carefully reviewed. Morrison Hershfield should be contacted for any discrepancies so that a full assessment may be made to validate the results of this analysis.

ATTACHMENTS: Tower Loading, Tower Profile, Program Output, Coax Sketch, Additional Calculations and Site Lease Application Form

Tower Analysis Summary Form

Site Name	NEW BRITAIN WILDWOOD STREET
Site Number	88241-A
FA Number	10050945
Date of Analysis	06/30/2016
Company Performing Analysis	Morrison Hershfield

Tower Info Description Tower Type (G, SST, MP) Tower Height (top of steel AGL) 110 ft Tower Manufacturer Tower Model Tower Design N/A Foundation Design Geotechnical Report Tower Mapping Previous Structural Analysis B+T Group, Project #: 84498.003.01a 3/4/2015 Previous Structural Analysis B+T Group, Project #: 85026.001 8/23/2012 Previous Structural Analysis GPD Associates, Project #: 2009285.35 11/9/2009 Previous Structural Analysis oundation Mapping

Steel Yield Strength (ksi)

Pole	65
Base Plate	50
Anchor Rods	75

^{*}Assumed based on experience with similar towers.

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Design Parameters Design Code Used TIA/EIA-222-F 2006 IBC / ASCE 7-05 Location of Tower (County, State) Hartford, CT Basic Wind Speed (mph) Ice Thickness (in)

 Existing and proposed loading for T-Mobile is per their Site Lease Application Site #. CT11634C, dated 04/27/2016, and is considered to be correct
 The remaining existing loading is taken from the previous structural analysis completed by B+T Group, Project #: 84498.003.01a, dated 03/04/2015, and is onsidered to be correct. 3) Future loading for AT&T Mobility is per Generic AT&T Reserve Loading equirements, and is considered to be correct.

Analysis Results (% Maximum Usage)

Existing/Reserved + Future + Propo	sed Condition
Pole (%)	99.7%
Anchor Bolts (%) / Base Plate (%)	72.2% / 86.5%
Foundation (%)	76.1%
Foundation Adequate?	YES

Eviating / Becaused Loading

			Anter	na					Mou	ınt	Transmission Line			
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Туре	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Туре	Quantity	Model	Size	Attachment Leg/Face
AT&T Mobility	110	114	6	Panel	Powewave	7770	0 / 120 / 240	1	Unknown	14' Low Profile Platform	12	Unknown	1-5/8"	Internal
AT&T Mobility	110	114	3	Panel	KMW	AM-X-CD-16-65-00T	0 / 120 / 240				3	Unknown	1/2"	External
AT&T Mobility	110	114	6	TMA	Powewave	LGP 21401								
AT&T Mobility	110	112	6	RRH	Ericsson	RBS6601								
AT&T Mobility	110	112	1	Surge Arrestor	Raycap	DC6-48-60-18-8F								
T-Mobile*	100	100	3	Panel	Ericsson	AIR 21 B4A B2P	60 / 160 / 310	1	Unknown	12.5' Platform w/ Handrails	15	Unknown	1-5/8"	Internal/External
T-Mobile	100	100	3	Panel	Eicsson	AIR 21 B2A B4P	60 / 160 / 310				1	Hybrid Cable	1-5/8"	Internal
T-Mobile*	100	100	3	Panel	Commscope	LNX-6515DS-A1M	60 / 160 / 310				1	Unknown	3/8"	Internal
T-Mobile*	100	100	3	TMA	RFS	1412D-1S20				Behind Antennas	3	Unknown	1/4"	Internal
T-Mobile	100	100	3	RRU	Ericsson	RRUS11-B12				Behind Antennas				
Verizon Wireless	90	90	3	Panel	Antel	BXA-80063/4CF	60 / 180 / 300	3	Unknown	10' T-Arm Mount	12	Unknown	1-5/8"	Internal
Verizon Wireless	90	90	3	Panel	Antel	BXA-171063/8BF	***************************************				6	Unknown	1-5/8"	External
Verizon Wireless	90	90	3	Panel	Antel	BXA-70063-6CF_2								
Town	60	60	10	Lights	-	Stadium Lights		1	Unknown	Stadium Light Mount	-	=	-	-

Note: Existing (3) Ericsson AIR 21 B4A B2P panels, (2) 1-5/8", (1) 3/8" and (3) 1/4" feedlines at 100' elevation are to be removed. The remaining existing loading to be reused.

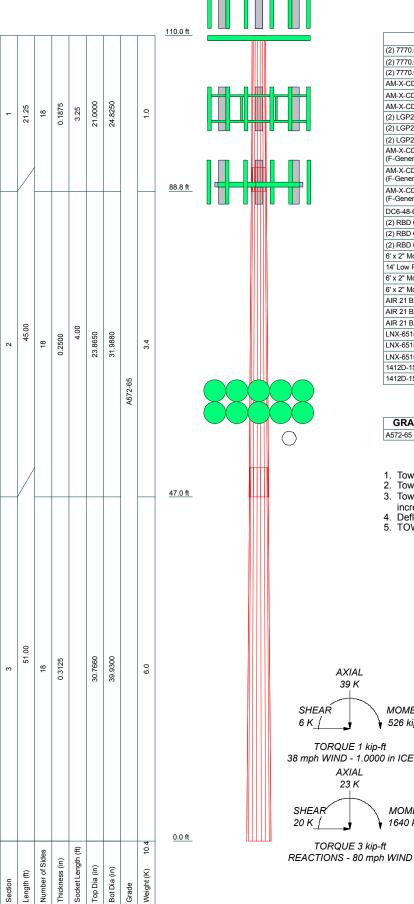
Proposed Loading

i roposeu Louding														
Antenna								Mou	ınt	Transmission Line				
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Туре	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Туре	Quantity	Model	Size	Attachment Leg/Face
T-Mobile	100	100	3	Panel	Ericsson	AIR 32 B66AaB2a	60 / 160 / 310	-	-	Same as existing	1	Hybrid Cable	7/8"	Internal
														1

Note: The proposed loading is in addition to the remaining existing loading at 100 ft elevation.

r ataro Loading														
	Antenna									ınt	Transmission Line			
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Туре	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Туре	Quantity	Model	Size	Attachment Leg/Face
AT&T Mobility	110	114	3	Panel	KMW	AM-X-CD-16-65-00T	0 / 120 / 240	-	-	Same as existing	6	Unknown	1-5/8"	Internal

Note: The future loading is in addition to the existing loading at 110 ft elevation.



DESIGNED APPURTENANCE LOADING

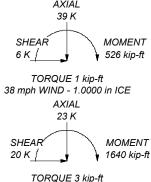
TYPE	ELEVATION	TYPE	ELEVATION
(2) 7770.00 w/ pipe mount (E)	114	1412D-1S20 (E-Behind Antennas)	100
(2) 7770.00 w/ pipe mount (E)	114	RRUS 11 B12 (E-Behind Antennas)	100
(2) 7770.00 w/ pipe mount (E)	114	RRUS 11 B12 (E-Behind Antennas)	100
AM-X-CD-16-65-00T w/ pipe mount (E)	114	RRUS 11 B12 (E-Behind Antennas)	100
AM-X-CD-16-65-00T w/ pipe mount (E)	114	12.5' Platform w/Handrails (E)	100
AM-X-CD-16-65-00T w/ pipe mount (E)	114	AIR 32 B66AaB2a w/pipe mount (P)	100
(2) LGP21401 (E)	114	AIR 32 B66AaB2a w/pipe mount (P)	100
(2) LGP21401 (E)	114	AIR 32 B66AaB2a w/pipe mount (P)	100
(2) LGP21401 (E)	114	BXA-80063/4CF w/ pipe mount (E)	90
AM-X-CD-16-65-00T w/ pipe mount	114	BXA-80063/4CF w/ pipe mount (E)	90
(F-Generic)		BXA-80063/4CF w/ pipe mount (E)	90
AM-X-CD-16-65-00T w/ pipe mount (F-Generic)	114	BXA-171063/8BF w/ pipe mount (E)	90
,	44.4	BXA-171063/8BF w/ pipe mount (E)	90
AM-X-CD-16-65-00T w/ pipe mount (F-Generic)	114	BXA-171063/8BF w/ pipe mount (E)	90
DC6-48-60-18-8F (E)	112	BXA-70063-6CF-2 w/ pipe mount (E)	90
(2) RBD 6601 (E)	112	BXA-70063-6CF-2 w/ pipe mount (E)	90
(2) RBD 6601 (E)	112	BXA-70063-6CF-2 w/ pipe mount (E)	90
(2) RBD 6601 (E)	112	10' T-Arm Mount (E)	90
6' x 2" Mount Pipe (E-Photos)	110	10' T-Arm Mount (E)	90
14' Low Profile Platform (E)	110	10' T-Arm Mount (E)	90
6' x 2" Mount Pipe (E-Photos)	110	Stadium Light (E)	61.5
6' x 2" Mount Pipe (E-Photos)	110	Stadium Light (E)	61.5
AIR 21 B2A B4P w/ pipe mount (E)	100	Stadium Light (E)	61.5
AIR 21 B2A B4P w/ pipe mount (E)	100	Stadium Light (E)	61.5
AIR 21 B2A B4P w/ pipe mount (E)	100	Stadium Light (E)	61.5
LNX-6515DS-A1M w/ pipe mount (E)	100	Stadium Light Mount (E)	60
LNX-6515DS-A1M w/ pipe mount (E)	100	Stadium Light (E)	58.5
LNX-6515DS-A1M w/ pipe mount (E)	100	Stadium Light (E)	58.5
1412D-1S20 (E-Behind Antennas)	100	Stadium Light (E)	58.5
1412D-1520 (E-Behind Antennas)	100	Stadium Light (E)	58.5
THE TEES (E SEMINATURE MASS)		Stadium Light (E)	58.5

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

- 1. Tower is located in Hartford County, Connecticut.
 2. Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
 3. Tower is also designed for a 38 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
 4. Deflections are based upon a 50 mph wind.
 5. TOWER RATING: 99.7%





Morrison Hershfield

1455 Lincoln Parkway, Suite 500 Atlanta, GA 30346 Phone: (770) 379-8500 FAX: (770) 379-8501

Job: ATT-664 / 7160003		
Project: 88241-A / NEW BRITA	AIN WILDWOOD STR	EET
Client: AT&T Towers	- IVIIX	App'd:
Code: TIA/EIA-222-F	Date: 06/28/16	Scale: NTS
Path:		Dwg No. F_

Morrison Hershfield

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	AT&T Towers	MK		

Tower Input Data

There is a pole section.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in Hartford County, Connecticut.

Basic wind speed of 80 mph.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56.00 pcf.

A wind speed of 38 mph is used in combination with ice.

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 50 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.333.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification

- √ Use Code Stress Ratios
- √ Use Code Safety Factors Guys
- Escalate Ice
 Always Use Max Kz
 Use Special Wind Profile
 Include Bolts In Member Capacity
 Leg Bolts Are At Top Of Section
 Secondary Horizontal Braces Leg
 Use Diamond Inner Bracing (4 Sided)
 SR Members Have Cut Ends
 SR Members Are Concentric

Distribute Leg Loads As Uniform Assume Legs Pinned

- √ Assume Rigid Index Plate
- √ Use Clear Spans For Wind Area
 Use Clear Spans For KL/r
 Retension Guys To Initial Tension
- √ Bypass Mast Stability Checks
- √ Use Azimuth Dish Coefficients
- √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder

Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation

- ✓ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption Poles
- √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets

Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft	Sides	in	in	in	in	
L1	110.00-88.75	21.25	3.25	18	21.0000	24.8250	0.1875	0.7500	A572-65
									(65 ksi)
L2	88.75-47.00	45.00	4.00	18	23.8650	31.9880	0.2500	1.0000	A572-65
									(65 ksi)
L3	47.00-0.00	51.00		18	30.7660	39.9300	0.3125	1.2500	A572-65
									(65 ksi)

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Tapered Pole Properties

Section	Tip Dia.	Area	I	r	С	I/C	J	It/Q	w	w/t
	in	in^2	in^4	in	in	in^3	in^4	in^2	in	
L1	21.3240	12.3860	677.8263	7.3884	10.6680	63.5383	1356.5444	6.1942	3.3660	17.952
	25.2080	14.6624	1124.4381	8.7463	12.6111	89.1626	2250.3558	7.3326	4.0392	21.542
L2	24.8289	18.7385	1320.2258	8.3833	12.1234	108.8988	2642.1889	9.3710	3.7602	15.041
	32.4815	25.1841	3204.9632	11.2670	16.2499	197.2297	6414.1436	12.5944	5.1899	20.76
L3	31.9704	30.2060	3539.1921	10.8110	15.6291	226.4488	7083.0411	15.1059	4.8648	15.567
	40.5460	39.2956	7792.1193	14.0642	20.2844	384.1427	15594.4917	19.6515	6.4777	20.729

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A _r	Weight Mult.	Stitch Bolt Spacing	Stitch Bolt Spacing	Double Angle Stitch Bolt Spacing
	_						Diagonals	Horizontals	Redundants
ft	ft ²	in					in	in	in
L1				1	1	1			
110.00-88.75									
L2 88.75-47.00				1	1	1			
L3 47.00-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or	Allow Shield	Component Type	Placement	Total Number		C_AA_A	Weight
	Leg		-77	ft			ft²/ft	plf
*** AT&T Mobility ***				·			V V	
1-5/8"	Α	No	Inside Pole	110.00 - 6.00	18	No Ice	0.00	0.82
(12E+6F)						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
						2" Ice	0.00	0.82
						4" Ice	0.00	0.82
1/2"	Α	No	CaAa (Out Of	110.00 - 6.00	1	No Ice	0.06	0.15
(E)			Face)			1/2" Ice	0.16	0.84
						1" Ice	0.26	2.14
						2" Ice	0.46	6.58
						4" Ice	0.86	22.78
1/2"	Α	No	CaAa (Out Of	110.00 - 6.00	2	No Ice	0.00	0.15
(E (Shielded))			Face)			1/2" Ice	0.00	0.84
						1" Ice	0.00	2.14
						2" Ice	0.00	6.58
						4" Ice	0.00	22.78
*** T-Mobile ***								
1-5/8"	В	No	Inside Pole	100.00 - 6.00	13	No Ice	0.00	0.82
(E)						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
						2" Ice	0.00	0.82
						4" Ice	0.00	0.82
7/8"	В	No	Inside Pole	100.00 - 6.00	1	No Ice	0.00	0.33
(P)						1/2" Ice	0.00	0.33
						1" Ice	0.00	0.33
						2" Ice	0.00	0.33
						4" Ice	0.00	0.33
*** Verizon Wireless ***								
1-5/8"	C	No	CaAa (Out Of	90.00 - 6.00	1	No Ice	0.20	0.82
(E)			Face)			1/2" Ice	0.30	2.33
` '			,			1" Ice	0.40	4.46
						2" Ice	0.60	10.54

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Description	Face or	Allow Shield	Component Type	Placement	Total Number		$C_A A_A$	Weight
	Leg		71	ft			ft²/ft	plf
				-		4" Ice	1.00	30.04
1-5/8"	C	No	CaAa (Out Of	90.00 - 6.00	5	No Ice	0.00	0.82
(E (Shielded))			Face)			1/2" Ice	0.00	2.33
						1" Ice	0.00	4.46
						2" Ice	0.00	10.54
						4" Ice	0.00	30.04
1-5/8"	C	No	Inside Pole	90.00 - 2.00	12	No Ice	0.00	0.82
(E)						1/2" Ice	0.00	0.82
. ,						1" Ice	0.00	0.82
						2" Ice	0.00	0.82
						4" Ice	0.00	0.82
*** Tower Hardware ***								
Safety Line 3/8"	В	No	CaAa (Out Of	110.00 - 6.00	1	No Ice	0.04	0.22
(Tower)			Face)			1/2" Ice	0.14	0.75
, ,			,			1" Ice	0.24	1.28
						2" Ice	0.44	2.34
						4" Ice	0.84	4.46
Climbing Pegs	В	No	CaAa (Out Of	110.00 - 6.00	1	No Ice	0.07	1.80
(Tower)	_		Face)		_	1/2" Ice	0.17	2.54
()						1" Ice	0.27	3.89
						2" Ice	0.47	8.41
						4" Ice	0.87	24.80

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	C₄A₄ Side	Weight
			Vert ft ft ft	o	ft		ft²	ft²	K
*** AT&T Mobility ***			J.						
(2) 7770.00 w/ pipe mount	Α	From Leg	4.00	0.00	114.00	No Ice	6.22	4.35	0
(E)		C	0.00			1/2" Ice	6.77	5.20	0
			0.00			1" Ice	7.30	5.92	0
						2" Ice	8.38	7.41	0
						4" Ice	10.69	10.76	1
(2) 7770.00 w/ pipe mount	В	From Leg	4.00	0.00	114.00	No Ice	6.22	4.35	0
(E)		_	0.00			1/2" Ice	6.77	5.20	0
			0.00			1" Ice	7.30	5.92	0
						2" Ice	8.38	7.41	0
						4" Ice	10.69	10.76	1
(2) 7770.00 w/ pipe mount	C	From Leg	4.00	0.00	114.00	No Ice	6.22	4.35	0
(E)		_	0.00			1/2" Ice	6.77	5.20	0
			0.00			1" Ice	7.30	5.92	0
						2" Ice	8.38	7.41	0
						4" Ice	10.69	10.76	1
AM-X-CD-16-65-00T w/	A	From Leg	4.00	0.00	114.00	No Ice	8.50	6.30	0
pipe mount			0.00			1/2" Ice	9.15	7.48	0
(E)			0.00			1" Ice	9.77	8.37	0
						2" Ice	11.03	10.18	0
						4" Ice	13.68	14.02	1
AM-X-CD-16-65-00T w/	В	From Leg	4.00	0.00	114.00	No Ice	8.50	6.30	0
pipe mount			0.00			1/2" Ice	9.15	7.48	0
(E)			0.00			1" Ice	9.77	8.37	0
. /						2" Ice	11.03	10.18	0
						4" Ice	13.68	14.02	1

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		$C_A A_A$ Front	$C_A A_A$ Side	Weigl
	Leg		Vert ft ft ft	0	ft		ft²	ft²	K
M-X-CD-16-65-00T w/	С	From Leg	4.00	0.00	114.00	No Ice	8.50	6.30	0
pipe mount	Č	110111 208	0.00	0.00	110	1/2" Ice	9.15	7.48	0
(E)			0.00			1" Ice	9.77	8.37	0
. ,						2" Ice	11.03	10.18	0
						4" Ice	13.68	14.02	1
(2) LGP21401	Α	From Leg	4.00	0.00	114.00	No Ice	1.29	0.23	0
(E)			0.00			1/2" Ice	1.45	0.31	0
			0.00			1" Ice	1.61	0.40	0
						2" Ice	1.97	0.61	0
(a) x ana	_					4" Ice	2.79	1.12	0
(2) LGP21401	В	From Leg	4.00	0.00	114.00	No Ice	1.29	0.23	0
(E)			0.00			1/2" Ice	1.45	0.31	0
			0.00			1" Ice	1.61	0.40	0
						2" Ice 4" Ice	1.97 2.79	0.61 1.12	0
(2) LGP21401	C	From Leg	4.00	0.00	114.00	No Ice	1.29	0.23	0
(E)	C	Fioni Leg	0.00	0.00	114.00	1/2" Ice	1.45	0.23	0
(L)			0.00			1" Ice	1.61	0.40	0
			0.00			2" Ice	1.97	0.61	0
						4" Ice	2.79	1.12	0
(2) RBD 6601	Α	From Leg	4.00	0.00	112.00	No Ice	0.48	0.35	0
(E)			0.00			1/2" Ice	0.63	0.46	0
. ,			0.00			1" Ice	0.77	0.58	0
						2" Ice	1.11	0.84	0
						4" Ice	1.88	1.47	0
(2) RBD 6601	В	From Leg	4.00	0.00	112.00	No Ice	0.48	0.35	0
(E)			0.00			1/2" Ice	0.63	0.46	0
			0.00			1" Ice	0.77	0.58	0
						2" Ice	1.11	0.84	0
(a) PPP ((01			4.00	0.00	112.00	4" Ice	1.88	1.47	0
(2) RBD 6601	C	From Leg	4.00	0.00	112.00	No Ice	0.48	0.35	0
(E)			0.00 0.00			1/2" Ice 1" Ice	0.63 0.77	0.46 0.58	0
			0.00			2" Ice	1.11	0.38	0
						4" Ice	1.88	1.47	0
DC6-48-60-18-8F	A	From Leg	1.00	0.00	112.00	No Ice	1.60	1.60	0
(E)	11	Trom Leg	0.00	0.00	112.00	1/2" Ice	1.81	1.81	ő
(-)			0.00			1" Ice	2.02	2.02	0
						2" Ice	2.49	2.49	0
						4" Ice	3.56	3.56	0
4' Low Profile Platform	C	None		0.00	110.00	No Ice	23.10	23.10	2
(E)						1/2" Ice	26.80	26.80	3
						1" Ice	30.50	30.50	3
						2" Ice	37.90	37.90	4
CL OHAC (P)		г т	4.00	0.00	110.00	4" Ice	52.70	52.70	5
6' x 2" Mount Pipe	Α	From Leg	4.00	0.00	110.00	No Ice	1.43	1.43	0
(E-Photos)			0.00			1/2" Ice 1" Ice	1.92 2.29	1.92 2.29	0
			0.00			2" Ice	3.06	3.06	0
						4" Ice	4.70	4.70	0
6' x 2" Mount Pipe	В	From Leg	4.00	0.00	110.00	No Ice	1.43	1.43	0
(E-Photos)	ъ	1101111208	0.00	0.00	110.00	1/2" Ice	1.92	1.92	0
(= - 110100)			0.00			1" Ice	2.29	2.29	0
						2" Ice	3.06	3.06	0
						4" Ice	4.70	4.70	0
6' x 2" Mount Pipe	C	From Leg	4.00	0.00	110.00	No Ice	1.43	1.43	0
(E-Photos)		J	0.00			1/2" Ice	1.92	1.92	0

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	AT&T Towers	MK

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C_AA_A Front	C_AA_A Side	Weight
			Vert ft ft ft	0	ft		ft²	ft²	K
			0.00			1" Ice	2.29	2.29	0
						2" Ice	3.06	3.06	0
						4" Ice	4.70	4.70	0
*** AM-X-CD-16-65-00T w/	A	From Leg	4.00	0.00	114.00	No Ice	8.50	6.30	0
pipe mount	Α	110III Leg	0.00	0.00	114.00	1/2" Ice	9.15	7.48	0
(F-Generic)			0.00			1" Ice	9.77	8.37	0
(i Generie)			0.00			2" Ice	11.03	10.18	0
						4" Ice	13.68	14.02	1
AM-X-CD-16-65-00T w/	В	From Leg	4.00	0.00	114.00	No Ice	8.50	6.30	0
pipe mount		Č	0.00			1/2" Ice	9.15	7.48	0
(F-Generic)			0.00			1" Ice	9.77	8.37	0
· · · · · · · · · · · · · · · · · · ·						2" Ice	11.03	10.18	0
						4" Ice	13.68	14.02	1
AM-X-CD-16-65-00T w/	C	From Leg	4.00	0.00	114.00	No Ice	8.50	6.30	0
pipe mount			0.00			1/2" Ice	9.15	7.48	0
(F-Generic)			0.00			1" Ice	9.77	8.37	0
						2" Ice	11.03	10.18	0
						4" Ice	13.68	14.02	1
*** T-Mobile ***									
AIR 21 B2A B4P w/ pipe	Α	From Leg	4.00	0.00	100.00	No Ice	6.90	5.74	0
mount			0.00			1/2" Ice	7.46	6.64	0
(E)			0.00			1" Ice	8.00	7.44	0
						2" Ice	9.10	9.09	0
AID 21 D2 A D4D/	D	E I	4.00	0.00	100.00	4" Ice	11.44	12.59	1
AIR 21 B2A B4P w/ pipe	В	From Leg	4.00 0.00	0.00	100.00	No Ice 1/2" Ice	6.90 7.46	5.74 6.64	0
mount (E)			0.00			1" Ice	8.00	7.44	0
(E)			0.00			2" Ice	9.10	9.09	0
						4" Ice	11.44	12.59	1
AIR 21 B2A B4P w/ pipe	С	From Leg	4.00	0.00	100.00	No Ice	6.90	5.74	0
mount	Č	Trom Leg	0.00	0.00	100.00	1/2" Ice	7.46	6.64	ő
(E)			0.00			1" Ice	8.00	7.44	0
()						2" Ice	9.10	9.09	0
						4" Ice	11.44	12.59	1
NX-6515DS-A1M w/ pipe	Α	From Leg	4.00	0.00	100.00	No Ice	11.72	10.28	0
mount			0.00			1/2" Ice	12.44	11.81	0
(E)			0.00			1" Ice	13.15	13.16	0
						2" Ice	14.61	15.49	1
						4" Ice	17.87	20.37	1
NX-6515DS-A1M w/ pipe	В	From Leg	4.00	0.00	100.00	No Ice	11.72	10.28	0
mount			0.00			1/2" Ice	12.44	11.81	0
(E)			0.00			1" Ice	13.15	13.16	0
						2" Ice	14.61	15.49	1
NW 6515DG AIM / :	0	г т	4.00	0.00	100.00	4" Ice	17.87	20.37	1
NX-6515DS-A1M w/ pipe	C	From Leg	4.00	0.00	100.00	No Ice	11.72	10.28	0
mount (E)			0.00 0.00			1/2" Ice 1" Ice	12.44 13.15	11.81 13.16	0
(E)			0.00			2" Ice	13.13	15.16	0 1
						4" Ice	17.87	20.37	1
1412D-1S20	Α	From Leg	4.00	0.00	100.00	No Ice	0.71	0.41	0
(E-Behind Antennas)	11	Trom Log	0.00	0.00	100.00	1/2" Ice	0.83	0.52	0
(2 Dennia / Internias)			0.00			1" Ice	0.83	0.64	0
			0.00			2" Ice	1.26	0.90	0
						4" Ice	1.95	1.54	0
1412D-1S20	В	From Leg	4.00	0.00	100.00	No Ice	0.71	0.41	0
(E-Behind Antennas)		- 3	0.00			1/2" Ice	0.83	0.52	0

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Ī	Client		Designed by		
		AT&T Towers	MK		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C_AA_A Front	C_AA_A Side	Weight
	- 6		Vert ft ft	0	ft		ft²	ft^2	K
			ft						
			0.00			1" Ice	0.97	0.64	0
						2" Ice	1.26	0.90	0
						4" Ice	1.95	1.54	0
1412D-1S20	C	From Leg	4.00	0.00	100.00	No Ice	0.71	0.41	0
(E-Behind Antennas)			0.00			1/2" Ice	0.83	0.52	0
			0.00			1" Ice	0.97	0.64	0
						2" Ice	1.26	0.90	0
						4" Ice	1.95	1.54	0
RRUS 11 B12	A	From Leg	4.00	0.00	100.00	No Ice	3.31	1.36	0
(E-Behind Antennas)			0.00			1/2" Ice	3.55	1.54	0
			0.00			1" Ice	3.80	1.73	0
						2" Ice	4.33	2.13	0
						4" Ice	5.50	3.04	0
RRUS 11 B12	В	From Leg	4.00	0.00	100.00	No Ice	3.31	1.36	0
(E-Behind Antennas)		_	0.00			1/2" Ice	3.55	1.54	0
			0.00			1" Ice	3.80	1.73	0
						2" Ice	4.33	2.13	0
						4" Ice	5.50	3.04	0
RRUS 11 B12	C	From Leg	4.00	0.00	100.00	No Ice	3.31	1.36	0
(E-Behind Antennas)		Č	0.00			1/2" Ice	3.55	1.54	0
(0.00			1" Ice	3.80	1.73	0
						2" Ice	4.33	2.13	0
						4" Ice	5.50	3.04	0
12.5' Platform w/Handrails	C	None		0.00	100.00	No Ice	19.46	19.46	1
(E)		110110		0.00	100.00	1/2" Ice	25.57	25.57	2
(2)						1" Ice	31.68	31.68	2
						2" Ice	43.90	43.90	3
						4" Ice	68.34	68.34	4
***						. 100	00.5 .	00.5.	•
AIR 32 B66AaB2a w/pipe	Α	From Leg	4.00	0.00	100.00	No Ice	7.09	4.78	0
mount			0.00			1/2" Ice	7.54	5.21	0
(P)			0.00			1" Ice	8.00	5.64	0
(-)						2" Ice	8.95	6.54	0
						4" Ice	10.96	8.44	1
AIR 32 B66AaB2a w/pipe	В	From Leg	4.00	0.00	100.00	No Ice	7.09	4.78	0
mount		110111 208	0.00	0.00	100.00	1/2" Ice	7.54	5.21	0
(P)			0.00			1" Ice	8.00	5.64	0
(2)			0.00			2" Ice	8.95	6.54	ő
						4" Ice	10.96	8.44	1
AIR 32 B66AaB2a w/pipe	C	From Leg	4.00	0.00	100.00	No Ice	7.09	4.78	0
mount	Č	Trom Leg	0.00	0.00	100.00	1/2" Ice	7.54	5.21	0
(P)			0.00			1" Ice	8.00	5.64	0
(1)			0.00			2" Ice	8.95	6.54	0
						4" Ice	10.96	8.44	1
*** Verizon Wireless ***						4 100	10.90	8.44	1
	Α.	From Log	4.00	0.00	90.00	No Ioo	5.65	3.87	Λ
BXA-80063/4CF w/ pipe	A	From Leg		0.00	90.00	No Ice 1/2" Ice	5.65		0
mount			0.00				6.20	4.67 5.24	0
(E)			0.00			1" Ice	6.72	5.34	0
						2" Ice	7.80	6.79	0
DVA 000(2/4CE / .	D	F 1	4.00	0.00	00.00	4" Ice	10.08	10.00	1
BXA-80063/4CF w/ pipe	В	From Leg	4.00	0.00	90.00	No Ice	5.65	3.87	0
mount			0.00			1/2" Ice	6.20	4.67	0
(E)			0.00			1" Ice	6.72	5.34	0
						2" Ice	7.80	6.79	0
DV/ 000/0// ~~ / /	~		4.00	0.00	00.00	4" Ice	10.08	10.00	1
BXA-80063/4CF w/ pipe	C	From Leg	4.00	0.00	90.00	No Ice	5.65	3.87	0
mount			0.00			1/2" Ice	6.20	4.67	0

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		88241-A / NEW BRITAIN WILDWOOD STREET	19:53:28 06/28/16		
	Client		Designed by		
		AT&T Towers	MK		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C_AA_A Front	C_AA_A Side	Weight
			Vert ft ft ft	o	ft		ft²	ft²	K
(E)			0.00			1" Ice	6.72	5.34	0
						2" Ice	7.80	6.79	0
						4" Ice	10.08	10.00	1
BXA-171063/8BF w/ pipe	Α	From Leg	4.00	0.00	90.00	No Ice	3.37	3.74	0
mount			0.00			1/2" Ice	3.84	4.54	0
(E)			0.00			1" Ice	4.30	5.22	0
						2" Ice	5.31	6.64	0
DVA 171062/9DE w/ nine	D	From Log	4.00	0.00	90.00	4" Ice No Ice	7.47 3.37	9.85 3.74	1
BXA-171063/8BF w/ pipe mount	В	From Leg	4.00 0.00	0.00	90.00	1/2" Ice	3.84	3.74 4.54	0
(E)			0.00			1" Ice	4.30	5.22	0
(E)			0.00			2" Ice	5.31	6.64	0
						4" Ice	7.47	9.85	1
BXA-171063/8BF w/ pipe	C	From Leg	4.00	0.00	90.00	No Ice	3.37	3.74	0
mount	C	rrom Leg	0.00	0.00	70.00	1/2" Ice	3.84	4.54	0
(E)			0.00			1" Ice	4.30	5.22	0
,						2" Ice	5.31	6.64	0
						4" Ice	7.47	9.85	1
BXA-70063-6CF-2 w/ pipe	Α	From Leg	4.00	0.00	90.00	No Ice	7.97	5.80	0
mount			0.00			1/2" Ice	8.61	6.95	0
(E)			0.00			1" Ice	9.22	7.82	0
						2" Ice	10.46	9.60	0
						4" Ice	13.07	13.37	1
BXA-70063-6CF-2 w/ pipe	В	From Leg	4.00	0.00	90.00	No Ice	7.97	5.80	0
mount			0.00			1/2" Ice	8.61	6.95	0
(E)			0.00			1" Ice	9.22	7.82	0
						2" Ice	10.46	9.60	0
DV4 700/2 (CF 2 / :	0	Б. Т	4.00	0.00	00.00	4" Ice	13.07	13.37	1
BXA-70063-6CF-2 w/ pipe	C	From Leg	4.00	0.00	90.00	No Ice	7.97	5.80	0
mount			0.00			1/2" Ice	8.61 9.22	6.95	0
(E)			0.00			1" Ice 2" Ice	9.22 10.46	7.82 9.60	0
						4" Ice	13.07	13.37	1
10' T-Arm Mount	A	From Leg	2.00	0.00	90.00	No Ice	6.67	3.02	0
(E)	А	1 Ioni Leg	0.00	0.00	70.00	1/2" Ice	8.82	4.20	0
(L)			0.00			1" Ice	10.97	5.38	0
			0.00			2" Ice	15.27	7.74	1
						4" Ice	23.87	12.46	1
10' T-Arm Mount	В	From Leg	2.00	0.00	90.00	No Ice	6.67	3.02	0
(E)		Č	0.00			1/2" Ice	8.82	4.20	0
. ,			0.00			1" Ice	10.97	5.38	0
						2" Ice	15.27	7.74	1
						4" Ice	23.87	12.46	1
10' T-Arm Mount	C	From Leg	2.00	0.00	90.00	No Ice	6.67	3.02	0
(E)			0.00			1/2" Ice	8.82	4.20	0
			0.00			1" Ice	10.97	5.38	0
						2" Ice	15.27	7.74	1
						4" Ice	23.87	12.46	1
*** Town ***	~		0.50	0.00	60.00		16.10	10.50	•
Stadium Light Mount	C	From Leg	0.50	0.00	60.00	No Ice	16.40	10.28	0
(E)			0.00			1/2" Ice	21.70	14.27	0
			0.00			1" Ice 2" Ice	27.00 37.60	18.26 26.24	1 1

Morrison Hershfield 1455 Lincoln Parkway, Suite 500 Atlanta, GA 30346 Phone: (770) 379-8500 FAX: (770) 379-8501

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Client		Designed by
	AT&T Towers	MK

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter		Aperture Area	Weigh
				ft	0	0	ft	ft		ft²	K
*** Town *** Stadium Light	С	Paraboloid	From	1.00	0.00		61.50	3.00	No Ice	7.07	0
(E)	C	w/Radome	Face	-6.00	0.00		01.50	3.00	1/2" Ice	7.47	0
(L)		W/Radonic	1 acc	0.00					1" Ice	7.87	0
				0.00					2" Ice	8.66	ő
									4" Ice	10.25	0
Stadium Light	C	Paraboloid	From	1.00	0.00		61.50	3.00	No Ice	7.07	0
(E)		w/Radome	Face	-3.00					1/2" Ice	7.47	0
				0.00					1" Ice	7.87	0
									2" Ice	8.66	0
	_		_						4" Ice	10.25	0
Stadium Light	C	Paraboloid	From	1.00	0.00		61.50	3.00	No Ice	7.07	0
(E)		w/Radome	Face	0.00					1/2" Ice	7.47	0
				0.00					1" Ice	7.87	0
									2" Ice	8.66	0
Stadium Light	С	Paraboloid	Erom	1.00	0.00		61.50	3.00	4" Ice No Ice	10.25 7.07	0
(E)	C	w/Radome	From Face	3.00	0.00		01.30	3.00	1/2" Ice	7.07 7.47	0
(E)		w/Radonne	race	0.00					1" Ice	7.47	0
				0.00					2" Ice	8.66	0
									4" Ice	10.25	0
Stadium Light	C	Paraboloid	From	1.00	0.00		61.50	3.00	No Ice	7.07	Ö
(E)		w/Radome	Face	6.00	0.00		01.00	2.00	1/2" Ice	7.47	0
()				0.00					1" Ice	7.87	0
									2" Ice	8.66	0
									4" Ice	10.25	0
Stadium Light	C	Paraboloid	From	1.00	0.00		58.50	3.00	No Ice	7.07	0
(E)		w/Radome	Face	-6.00					1/2" Ice	7.47	0
				0.00					1" Ice	7.87	0
									2" Ice	8.66	0
	_		_						4" Ice	10.25	0
Stadium Light	C	Paraboloid	From	1.00	0.00		58.50	3.00	No Ice	7.07	0
(E)		w/Radome	Face	-3.00					1/2" Ice	7.47	0
				0.00					1" Ice	7.87	0
									2" Ice 4" Ice	8.66 10.25	$0 \\ 0$
Stadium Light	C	Paraboloid	From	1.00	0.00		58.50	3.00	No Ice	7.07	0
(E)	C	w/Radome	Face	0.00	0.00		30.30	5.00	1/2" Ice	7.07 7.47	0
(L)		W/ Rudonic	1 400	0.00					1" Ice	7.87	0
				0.00					2" Ice	8.66	0
									4" Ice	10.25	0
Stadium Light	C	Paraboloid	From	1.00	0.00		58.50	3.00	No Ice	7.07	Ö
(E)		w/Radome	Face	3.00					1/2" Ice	7.47	0
. /				0.00					1" Ice	7.87	0
									2" Ice	8.66	0
									4" Ice	10.25	0
Stadium Light	C	Paraboloid	From	1.00	0.00		58.50	3.00	No Ice	7.07	0
(E)		w/Radome	Face	6.00					1/2" Ice	7.47	0
				0.00					1" Ice	7.87	0
									2" Ice	8.66	0
									4" Ice	10.25	0

tnxTo	wer
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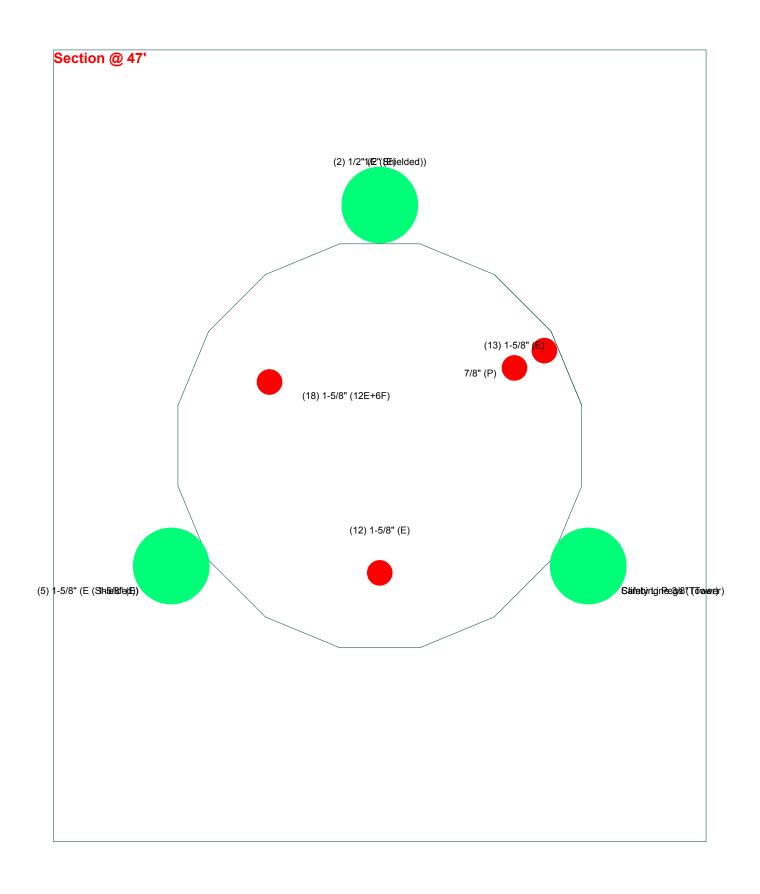
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Client		Designed by
	AT&T Towers	MK

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$SF*P_{allow} \ K$	% Capacity	Pass Fail
L1	110 - 88.75	Pole	TP24.825x21x0.1875	1	-6	744	38.6	Pass
L2	88.75 - 47	Pole	TP31.988x23.865x0.25	2	-14	1279	87.0	Pass
L3	47 - 0	Pole	TP39.93x30.766x0.3125	3	-23	2043	99.7	Pass
							Summary	
						Pole (L3)	99.7	Pass
						RATING =	99.7	Pass

__ Round __ __ Flat ___ App In Face App Out Face





Morrison Hershfield

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_											
Job: ATT-664 / 71600	03										
	Project: 88241-A / NEW BRITAIN WILDWOOD STREET										
Client: AT&T Towers	Drawn by: MK	App'd:									
Code: TIA/EIA-222-F	Date: 06/28/16	Scale: NTS									
Path:	in Wildwood Street\ATT-664 SA\Analysis\AT	Dwg No. E-									



MORRISON HERSHFIELD

Project:	ATT-664 / 7160003	Client: AT&T Towers	
Site Name:	NEW BRITAIN WILDWOOD STREET	Site ID: 88241-A	
Des. By:	MK	Ck. By: GLC	
Date:	6/28/2016	page: <u>1</u> OF <u>1</u>	

Base Plate & Anchor Rod Analysis Summary

Base Plate & Anchor F	104717	.a.y3.3 3 a	y
Susc Nedections.	Mu:	1640	ft-kips
Axial		23	kips
Shear		20	kips
Eta Facto		0.5	TIA G (Fig. 4-4)
Anchor Rod Data:	,,,,		(9)
Number of Anchor R	Rods:	12	EA
Anchor Rod D		2.25	in
Anchor Strength	(Fu):	100	ksi
Anchor Yield		75	ksi
Bolt Ci		46	in
Base Plate Data:			
Base Plate D	iam:	45	in
Base Plate Thicki	ness:	2.5	in
Base Plate Grade	(Fy):	50	ksi
Stiffener Data:			
Is Stiffen	ned?	NO	
Stiffener Configurat	tion:	N/A	
Stiffener Hei	ght:		in
Stiffener Wi	idth:		in
No	tch:		in
Stiffener Gro	ade:		ksi
Weld T	уре:		
Weld Electro	ode:		
Grrove De	pth:		in
Groove An	igle:		in
Horz. Fillet Weld S	Size:		in
Vert. Fillet Weld S	Size:		in
Pole Data:			
Pole Base Diam	eter:	39.93	in
Pole Shell Thicki	ness:	0.3125	in
Pole Number of S	ides:	18	
Pole Grade	(Fy):	65	ksi
Pole Strength ((Fu):	80	Ksi

Analysis Results:		
Anchor Rod Capacity	72.2%	PASS
Base Plate Capacity	86.5%	PASS
Stiffener Weld Capacity	0.0%	PASS
Stiffener Structural Capacity	0.0%	PASS

.



MORRISON HERSHFIELD

Project:	ATT-664 / 7160003	Client:	AT&T Towers
Site Name:	NEW BRITAIN WILDWOOD STREET	Site ID:	88241-A
Des. By:	MK	Ck. By:	GLC
Date:	6/28/2016	page: .	<u>1</u> _0F <u>1</u> _

Pad & Pier Analysis Summary

	Puu & Pier Anuly	5.5 5 6	7	
Base Reactions:				
	TIA Revision :	F		
	Unfactored DL Axial, PD:	23	kips	
	Unfactored WL Axial, PW:	0	kips	
	Unfactored WL Shear, V:	20	kips	
U	Infactored WL Moment, M:	1640	ft-kips	
Pad and Pier Data:				
	Base PL Dist. Above Pier:	0	in	
	Pier Dist. Above Grade:	6	in	
	Pad Bearing Depth, D:	6	ft	
	Pad Thickness, T:	3	ft	
	Pad Width/Length, L:	21.5	ft	
	Pier Cross Section Shape:	Square		
	Enter Pier Side Width:	6	ft	
	Concrete Density:	150	pcf	
	Pier Cross Section Area:	36.00	ft²	
	Pier Height:	3.5	ft	
	Soil (above pad) Height:	3	ft	
Soil Parameters:				
	Unit Weight, γ:	100	pcf	
Ult	imate Bearing Capacity, qn:	6	ksf	
	Strength Reduct. factor, φ:	0.75		
	Angle of Friction, Φ :	0	degrees	
Un	drained Shear Strength, Cu:	0	ksf	
	Design Bearing: φ*qn:	4.5	ksf	
	Passive Pres. Coeff., Kp:	1.00		

Bearing Results:											
	Orthogonal Direction =	42.9%	Pass								
	Diagonal Direction =	50.4%	Pass								
Overturning Stat	Overturning Stability Results:										
	Moment Orthogonal =	76.1%	Pass								
	Moment Diagonal =	76.1%	Pass								



				AT&T	Site Le	ase Appli	cation				rev 10.1	
		Please e-m	nail completed	application t	o correspondi	ing Account Mana	iger - CLICK F	IERE for CONT	ACTS MAP			
	Account	Manager				Email Address						
Select One	Nichola	s Carkin	N	ME, VT, NH, M	A, CT, RI, NY,	NJ, DE, MD, OH, I	 PA, MI, IN, & V	Vashington DC	;	nc734y(@att.com	
Select One	Julie O	verman	AL, FL	, GA, KY, LA,	MS, NC, SC, 1	ΓN, VA, WV, Puert	o Rico, & US	Virgin Islands	(USVI)	jo4976@	Datt.com	
Select One	Kimberly	Buggeln	IA, IL, MN, NI	D, NE, SD, WI,	AR, KS, OH, O	K, MO, TX, AZ, NM,	UT, CO, CA, C	OR, WA, MT, NV,	WY, HI, & AK	kh744v@	@att.com	
Select One		ampbell		, ,- , ,		OFTOP SITES NAT			, , ,		@att.com	
	review/approva	al of your Site L				op representative w wer foundations an				etailed instructi	ons regarding	
>>>>Please	Select Lease	Type>>>>	Lease Am	endment			(AT&T USE O	NLY) USID#:		FA#:		
	NOTE: David		no Many Bonyina	Additional D			Required	file name:	T-Mobile-Le	ase Amendment-l	JSIDFAxls	
	NOTE: REVI	sea Аррисацоі	ns May Require	e Additional Pi	-	INFORMATION			1			
Application Dat	te:	4/27/2016	Applicant S	Site Name:	CT63	34/Cing/Chesley Parl	k_ET	Applicant Site	Number:	CT11	1634C	
Company Name	e:		T-Mobile		Legal E	ntity Name:		T-M	lobile Northeast	LLC		
State of Incorp	oration:	Г	DΕ	Type of	Corporation -	Corp, Part, LLC, No	on-Prof]:		L	_C		
				Applicar	nt Address fo	r Notices - Billin	ng - Other	•				
				NOTICE:		В	ILLING (A/P):			COPY TO:		
COMPANY NAM	ИE		T-Mobile USA II	nc.		T-Mobile USA Inc.			Omnipoint Facilities Network 2 LLC			
ADDRESS			12920 SE 38th	Street		12920 SE 38th Street			4 Sylvan Way			
CITY, STATE, Z	ZIP		Bellevue, WA 9	8006		Bellevue, WA 9800	6		Parsippany, NJ	Parsippany, NJ 07054		
Attention:			PCS Lease Administrator			Billing			Lease Administration Manager			
Telephone:			425-378-4000			425-378-4000 425-378-400			425-378-4000			
					Applica	int Contacts						
				Name & Title			Phone			E-mail Address	3	
Site Acquisition	n Contractor:		Kyle Richers (Transcend Wireless)			908-447-4716			krichers@transcendwireless.com			
Carrier Site De	velopment Man	ager:	Mark Richard			860-692-7143 <u>r</u>			mark.richard64@t-mobile.com			
RF Engineer Co	ontact:		Mike Lucey			860 849 1616			michael.lucey@t-mobile.com			
nstallation Cor	ntractor:											
Lessee Signato	ory:											
24 Hour Emerg	ency Contact (NOC):	T-Mobile NOC			1-888-214-6668						
Other [indicate	e type]:											
En	nail Address fo	r Invoices/PO r	equests associa	ated with Pre-C	Construction Se	rvices (i.e. Structur	al Analysis) >>	·>>				
				ı	Commence	ement & Term	s					
	ruction Comme	ncement Date:	1								ı	
nitial Term (in	years):		l	of Extended T				Each Extended	Term (yrs):			
				Identificatio	1	1 (from AT&T Towers					1	
AT&T Site Nam			/ildwood Street	Coordinates (NAD 83)	LAT	41	40	5.5200		wer Height:		
AT&T Site ID #:			41-A	(1170 03)	LON	72	45	18.6700	Tower Type:	Selec	ct One	
	35 Wildwood St	reet										
City:		New E			State:	CT	Zip Code:	06051	County:			

AT&T Towers requires a structural analysis of the structure and its foundation and the all expenses in connection therewith are paid to AT&T by the applicant.

>>> Does your equipment installation require a Tower Extension or Tower Replacement?

Select One

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If you need additional space to <u>list all equipment</u> FINAL INSTALL CONFIGURATION (ALL EQUIPMENT)					<u> </u>		low. ONFIGURATION	(IF ANY)	
ANTENNA DESCRIPTION	SECTOR 1	SECTOR 2	SECTOR 3	SECTOR 4	ANTENNA DESCRIPTION	SECTOR 1	SECTOR 2	SECTOR 3	SECTOR 4
Manufacturer	Ericsson/Commsc ope	Ericsson/Commsc ope	Ericsson/Comms cope		 Manufacturer	Ericsson/Commsc ope	Ericsson/Commsc ope	Ericsson/Commsc ope	
Model Number	AIR 32 B66AaB2a/AIR 21 B2A B4P/ LNX 6515DS-A1M	AIR 32 B66AaB2a/AIR 21 B2A B4P/ LNX 6515DS-A1M	AIR 32 B66AaB2a/AIR 21 B2A B4P/ LNX 6515DS-A1M		Model Number	AIR 21 B4A B2P/ AIR 21 B2A B4P/ LNX 6515DS-A1M	AIR 21 B4A B2P/ AIR 21 B2A B4P/ LNX 6515DS-A1M	AIR 21 B4A B2P/ AIR 21 B2A B4P/ LNX 6515DS-A1M	
Antenna Quantity Per <u>Sector</u>	3	3	3		Antenna Quantity Per <u>Sector</u>	3	3	3	
Antenna Type	Panel	Panel	Panel		Antenna Type	Panel	Panel	Panel	
Antenna Dimensions (HxWxD) show dimensions in "inches"	56.5" X 12.9" X 8.7"/ 54.3" X 12" X 7.9/ 96.6" X 11.9" X 7.1"	56.5" X 12.9" X 8.7"/ 54.3" X 12" X 7.9/ 96.6" X 11.9" X 7.1"	56.5" X 12.9" X 8.7"/ 54.3" X 12" X 7.9/ 96.6" X 11.9" X 7.1"		Antenna Dimensions (HxWxD) show dimensions in "inches"	54.3" X 12" X 7.9" (AIR)/ 96.6" X 11.9" X 7.1" (Commscope)	54.3" X 12" X 7.9" (AIR)/ 96.6" X 11.9" X 7.1" (Commscope)	54.3" X 12" X 7.9" (AIR)/ 96.6" X 11.9" X 7.1" (Commscope)	
Weight (lbs)	132.2/ 80/ 85.1	132.2/ 80/ 85.1	132.2/ 80/ 85.1		Weight (lbs)	80/85.1	80/85.1	80/85.1	
Number of Coax Feed Lines per Sector and Diameter					Number of Coax Feed Lines per Sector and Diameter				
Number of Fiber Lines per Sector and Diameter	(4) 1-5/8",	(4) 1-5/8"	(4) 1-5/8"		Number of Fiber Lines per Sector and Diameter	(5) 1-5/8", (1) 1/4", (1) 3/8"	(5) 1-5/8", (1) 1/4"	(5) 1-5/8", (1) 1/4"	
Number of Hybrid Lines per Sector and Diameter (include DC and RET cables in any)	(1) 1-5/8", (1) 7/8"				Number of Hybrid Lines per Sector and Diameter (include DC and RET cables if any)	(1) 1-5/8"			
Number of OTHER Lines per Sector and Diameter					Number of OTHER Lines per Sector and Diameter				
Antenna Center Line - (in feet AGL)	100.00	100.00	100.00		Antenna Center Line (in feet AGL)	100.00	100.00	100.00	
Mount Height (in feet AGL)	100.00	100	100		Mount Height (in feet AGL)	100	100	100	
Mount Type & Model					Mount Type & Model				
Mount Face/Leg (If Rooftop, then indicate Parapet, Penthouse, Platform, or attachment)	Select One	Select One	Select One	Select One	Mount Face/Leg (If Rooftop, then indicate Parapet, Penthouse, Platform, or attachment)	Select One	Select One	Select One	Select One
Antenna Gain (in dB)					Antenna Gain (in dB)				
Dual/Multi-Mode/Band:					Dual/Multi-Mode/Band:				
Orientation or Azimuth (in degrees)	60	160	310		Orientation or Azimuth (in degrees)	60	160	310	
Down Tilt Type	Electrical	Electrical	Electrical	Select One	Down Tilt Type	Electrical	Electrical	Electrical	Select One
Down Tilt Degrees					Down Tilt Degrees				
	Structure Mo	ounted Equip	ment Detail	(BTS, TMA, TTA	, MHA, GPS, NEMA, ODU, RRU, Diplex	ers, etc., use row	90 if you need a	dditional space)	
OTHER EQUIPMENT DESCRIPTION	SECTOR 1	SECTOR 2	SECTOR 3	SECTOR 4	OTHER EQUIPMENT DESCRIPTION	SECTOR 1	SECTOR 2	SECTOR 3	SECTOR 4
Type (Amplifiers, Diplexers, BTS, GPS, ODU, RRU, etc)	TMA/RRU	TMA/RRU	TMA/RRU		Type (Amplifiers, Diplexers, BTS, GPS, ODU, RRU, etc)	TMA/RRU	TMA/RRU	TMA/RRU	
Manufacturer	(1)RFS/(1) Ericsson	(1)RFS/ (1)Ericsson	(1)RFS/ (1)Ericsson		Manufacturer	RFS/ Ericsson	RFS/ Ericsson	RFS/ Ericsson	
Model Number	1412D- 1S20/RRUS11- B12	1412D- 1S20/RRUS11- B12	1412D- 1S20/RRUS11- B12		Model Number	1412D- 1S20/RRUS11- B12	1412D- 1S20/RRUS11- B12	1412D- 1S20/RRUS11- B12	
Quantity	2	2	2		Quantity	2	2	2	
Dimensions (HxWxD) and Weight (lbs) show dimensions in "inches"	13.2" X 5.5" X 3.2", 13 lbs/ 20" X 17" X 7", 50 lbs	13.2" X 5.5" X 3.2", 13 lbs/ 20" X 17" X 7", 50 lbs	13.2" X 5.5" X 3.2", 13 lbs/ 20" X 17" X 7", 50 lbs		Dimensions (HxWxD) and Weight (lbs) show dimensions in "inches"	13.2" X 5.5" X 3.2", 13 lbs/ 20" X 17" X 7", 50 lbs	13.2" X 5.5" X 3.2", 13 lbs/ 20" X 17" X 7", 50 lbs	13.2" X 5.5" X 3.2", 13 lbs/ 20" X 17" X 7", 50 lbs	
Mount Height and Mount Location	100	100	100		Mount Height and Mount Location	100	100	100	

FINAL INST	ALL CONFIGUR	RATION (ALL EC	UIPMENT)	Microwave	(MW) Equipment	OUIPMENT CO	NFIGURATION	(IF ANY)	
MICROWAVE DESCRIPTION	SECTOR 1	SECTOR 2	SECTOR 3	SECTOR 4	MICROWAVE DESCRIPTION	SECTOR 1	SECTOR 2	SECTOR 3	SECTOR 4
Manufacturer					Manufacturer				
Model Number					Model Number				
Antenna Quantity Per Sector					Antenna Quantity Per Sector				
Antenna Dimensions (HxWxD) show dimensions in "inches"					Antenna Dimensions (HxWxD) show dimensions in "inches"				
Weight (lbs)					Weight (lbs)				
Feed Line Diameter					Feed Line Diameter				
Number of Feed Lines per MW					Number of Feed Lines per MW				
MW Center Line - (in feet AGL)					Rad Center Line (in feet AGL)				
Mount Height (in feet AGL)					Mount Height (in feet AGL)				
Mount Face/Leg (If Rooftop, then indicate Parapet, Penthouse, Platform, or attachment)	Select One	Select One	Select One	Select One	Mount Face/Leg (If Rooftop, then indicate Parapet, Penthouse, Platform, or attachment)	Select One	Select One	Select One	Select One
Orientation or Azimuth (in degrees)					Orientation or Azimuth (in degrees)				
existing and proposed configuration changes should be called out. (include: Manufacturer/Model, Dimensions, Weight, and Location on the Tower) Please include any equipment to be removed as well. Applicant Project Type: (examples: 2.5, L700, AWS, UMTS 3C, LTE 2C, Moderniz, atc.)			Removal and	d replacement of ((3) existing antennas with (3) new antenna	s. Addition of (1) 7	7/8" hybrid line.		
modernization, etc.)					Final Install (ALL FOURDMENT	F \			
Frequency Filings (Notice of (Change or Alter				Final Install (ALL EQUIPMEN for any frequency filing using the		ΔΔ Blanket Fre	quency Bands'	' in addition to
Applicants indicated microwa					, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,	
DESCRIPTION	Transn	mitter 1	Trans	mitter 2	Transmitter 3	Transr	mitter 4	Transmitte	r 5 /OTHER
Type of Service: (REQUIRED) Call Sign(s) (if applicable):	Voice of WQGA731.	& Data WQGB373.	Sele	ct One	Select One	Selec	t One	Selec	ct One
(REQUIRED) Tx Frequency (MHz):	WQKF358, 1/10-1/80, 21	WQPZ696 10-2180, 1850-							
(REQUIRED) Rx Frequency (MHz):	906, 80 1710-1780, 21								
(REQUIRED) Max Tx Output Power: (in	896. 69	, 2110-2155, 806- 98-806							
watts) Max Power Output / Radio: (in	6	0							
watts) (REQUIRED) Max ERP: (in watts) (REQUIRED)		00							
Is this unlicensed spectrum?	N	lo	Sele	ct One	Select One	Selec	t One	Selec	ct One
Filtering Information:					'				
	ı								

Ground or Equipment Space - Power & Telco Requirements (you must complete row 105)

Equipment/Ground Space Requirements:	Existing Tower Site - No Additional Ground Space	Adding Generator?	No	Equipment Detail	Cabinets	Inside Lessor Building?:	Select One
	Building or Equipment Dimensions (HxWxL):		nent Pad ons (WxL):	Leased Area Total Width	Leased Area Total Length	Subtotal Square Feet	Total Square Feet
Equipment Space 1:				10.00	20.00	200	
Generator Space 2:						0	200
Other Space 3:						0	
Power (Volts/Amps) (Only if provided by AT&T)		Telco Requirements: (Only if provided by AT&T) Select One		Number of New Exterior Cabinet(s) (REQUIRED)	0		
		Notes fo	r All Equipm	ent Above (Row	s 104-110)		
Notes	Notes Removal and replacement of (3) existing antennas with (3) new antennas. Removal of (6) 1-5/8" lines. Addition of (1) HCS 6x12 7/8" line.						
Equipment To Be Removed (if any)							
Do you require a PAL	(Programmatic Agreement L	etter)?		Select One			

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SITE NUMBER: CT11634C

35 WILDWOOD STREET NEW BRITAIN, CT 06051 HARTFORD COUNTY

SITE NAME: CT634/CING/CHESLEY PARK ET

RF DESIGN GUIDELINE: 792DB

ACCESS NOT PERMITTED ANTENNA/TMA/RRH SECTOR B: ACCESS NOT PERMITTED ANTENNA/TMA/RRH SECTOR C: ACCESS NOT PERMITTED ANTENNA/TMA/RRH GPS/LMU: LINRESTRICTED RADIO CABINETS: UNRESTRICTED PPC DISCONNECT: UNRESTRICTED MAIN CIRCUIT D/C: UNRESTRICTED NIU/T DEMARC: UNRESTRICTED OTHER/SPECIAL

T-MOBILE TECHNICIAN SITE SAFETY NOTES

SPECIAL RESTRICTIONS

GENERAL NOTES

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE NORTHEAST, LLC REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SPECIAL STRUCTURAL NOTES

TOWER OWNER SHALL PROVIDE GLOBAL STRUCTURAL STABILITY ANALYSIS OF EXISTING ANTENNA SUPPORT STRUCTURE. GENERAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE ALL REQUIRED STRUCTURAL MODIFICATIONS, RE—BUNDLING OF COAXIAL CABLES OR OTHER SPECIAL MODIFICATIONS AS OUTLINED THEREIN.

STRUCTURAL DESIGNS AND DETAILS FOR ANTENNA MOUNTS COMPLETED BY HUDSON DESIGN ON BEHALF OF T-MOBILE ARE INCLUSIVE OF THE ENTIRE ANTENNA SUPPORT STRUCTURE (GLOBAL STRUCTURAL STABILITY ANALYSIS BY OTHERS), EXISTING TOWER PLATFORM, EXISTING ANTENNA MOUNTS AND ALL OTHER ASPECTS OF THE STRUCTURE THAT WILL SUPPORT THE T-MOBILE MODERNIZATION EQUIPMENT DEPLOYMENT AS DEPICTED HEREIN.

HUDSON DESIGN ASSUMES THAT THE TOWER IS PROPERLY CONSTRUCTED AND MAINTAINED. ALL STRUCTURAL MEMBERS AND THEIR CONNECTION ARE ASSUMED TO BE IN GOOD CONDITION AND ARE FREE FROM DEFECTS WITH NO DETERIORATION TO ITS MEMBER CAPACITIES

APPROVALS		
PROJECT MANAGER	DATE	
CONCEDITOR	D.T.	
CONSTRUCTION	DATE	
RF ENGINEERING	DATE	
ZONING / SITE ACQ.	DATE	
OPERATIONS	DATE	
TOWER OWNER	DATE	
TOWER OWNER	DATE	



DRIVING DIRECTIONS:

HEAD NORTHEAST ON GRIFFIN RD S AND TURN RIGHT ONTO DAY HILL RD. USE THE RAMP TO MERGE ONTO I-91 S. CONTINUE ON I-91 S FOR 9.6 MILES THEN TAKE EXIT 28 TO MERGE ONTO CT-15 S/US-5 S. CONTINUE ONTO CT-15 S FOR 1.4 MILES THEN TURN RIGHT ONTO E ROBBINS AVE. TURN LEFT ONTO WILLARD AVE. TURN RIGHT ONTO NEW BRITAIN AVE. CONTINUE ONTO NEWINGTON AVE. TURN LEFT ONTO WILDWOOD ST. DESTINATION WILL BE ON THE LEFT.

ARRIVE AT 35 WILDWOOD STREET NEW BRITAIN, CT 06051.



CALL BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455 OR CALL 811

UNDERGROUND SERVICE ALERT



PROJECT SUMMARY

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY T-MOBILE

EQUIPMENT INSTALLATION

ZONING JURISDICTION: (CITY OF NEW

BASED ON INFORMATION PROVIDED BY T-MOBILE, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS AN ELIGIBLE FACILITY UNDER THE TAX RELIEF ACT OF 2012, 47 USC 1455(A), AND IS SUBJECT TO AN EXPEDITED ELIGIBLE FACILITIES REQUEST/REVIEW AND ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT,

SITE PLAN REVIEW).

SITE ADDRESS: 35 WILDWOOD STREET NEW BRITAIN, CT 06051

LATITUDE: 41° 40′ 05.66″ N

LONGITUDE: 72° 45' 17.84" W

JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY

DRAWING INDEX				
SHEET NO.	DESCRIPTION	REV.		
T-1	TITLE SHEET	1		
GN-1	GENERAL NOTES	1		
A-1	COMPOUND PLAN & EQUIPMENT PLAN	1		
A-2	ANTENNA LAYOUT & ELEVATION	1		
A-3	DETAILS	1		
E-1	GROUNDING DIAGRAM	1		

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 OFFICE: (860) 648-1116



TRANSCEND WIRELESS 10 INDUSTRIAL AVE MAHWAH, NJ 07430

TEL: (201) 684-00 FAX:(201) 684-00





CHECKED BY: DR

APPROVED BY: DJC

SITE NUMBER:
CT11634C
SITE NAME:
CT634/CING/
CHESLEY PARK_ET

SITE ADDRESS: 35 WILDWOOD STREET NEW BRITAIN, CT 06051 HARTFORD COUNTY

TITLE SHEET

SHEET NUMBER

T-1

GROUNDING NOTES

- 1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- 2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- 3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- 5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS
- 6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW
- 7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
- 9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 10. MISCELLANEOUS ELECTRICAL AND NON—ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE
- 11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR - TRANSCEND WIRELESS SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - T-MOBILE

- 2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION. DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK, ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- 13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

- 14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- 15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- 16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE SITES.'
- 17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- 19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- 20. APPLICABLE BUILDING CODES:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT, + 2009 & 2013 CT AMENDMENTS

ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE:

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL

EQUIPMENT AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 OFFICE: (860) 648-1116



TRANSCEND WIRELESS 10 INDUSTRIAL AVE MAHWAH, NJ 07430



William .

CHECKED BY:

APPROVED BY:

DJC

DR

	SUBMITTALS					
REV.	REV. DATE DESCRIPTION					
1	07/20/16	ISSUED FOR CONSTRUCTION	VP			
0	04/22/16	ISSUED FOR REVIEW	VP			

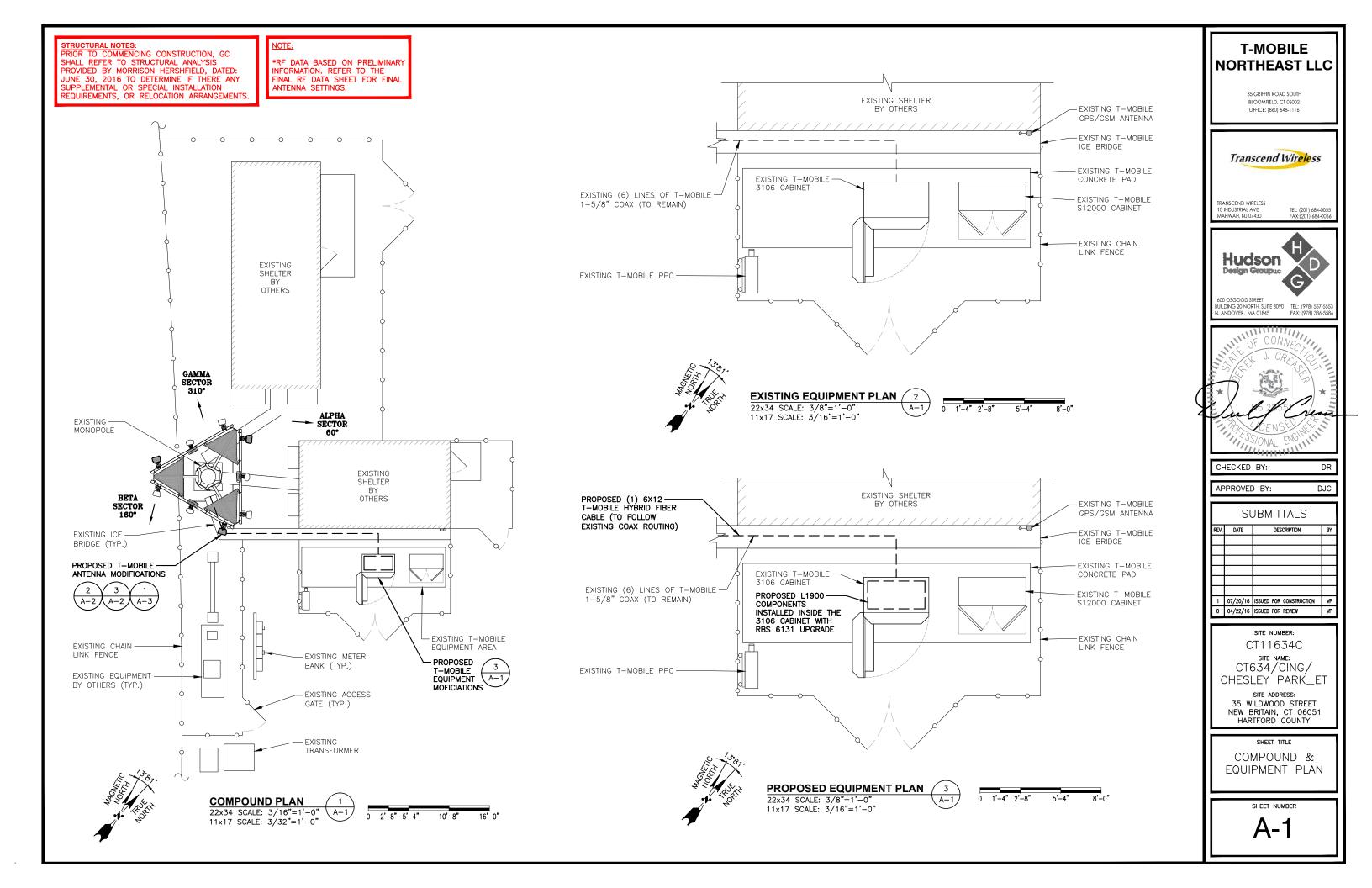
SITE NUMBER: CT11634C CT634/CING/ CHESLEY PARK_ET

SITE ADDRESS: 35 WILDWOOD STREET NEW BRITAIN, CT 06051 HARTFORD COUNTY

SHEET TITLE

GENERAL NOTES

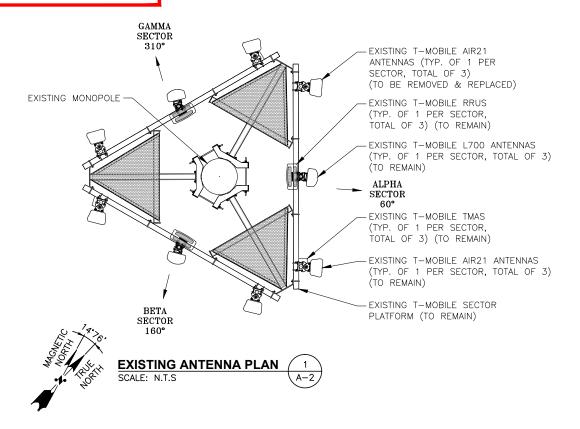
			ABBREVIATIONS		
AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
втсw	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	Р	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

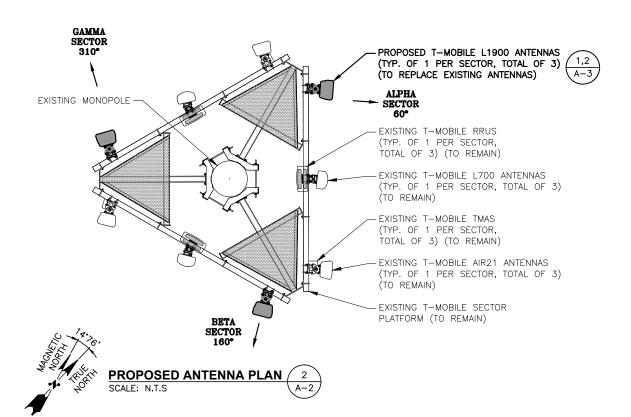


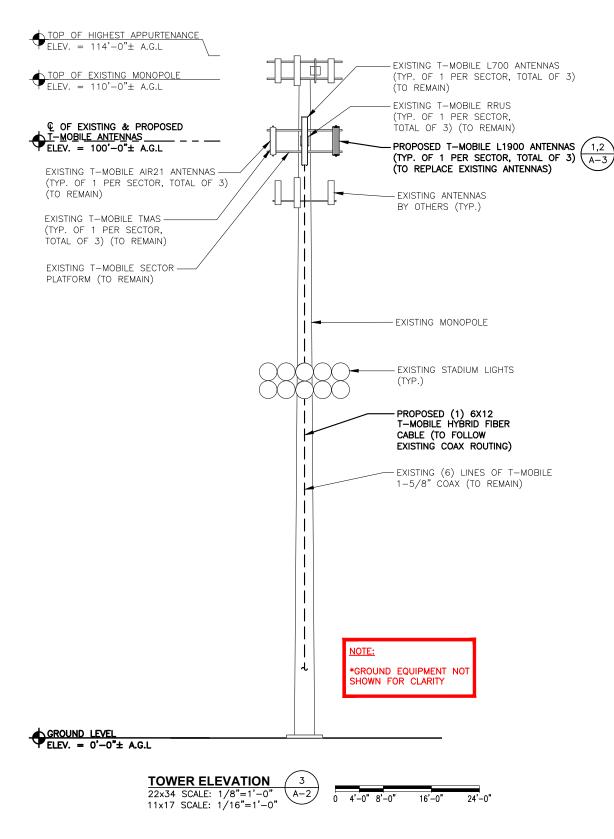
STRUCTURAL NOTES:
PRIOR TO COMMENCING CONSTRUCTION, GC
SHALL REFER TO STRUCTURAL ANALYSIS
PROVIDED BY MORRISON HERSHFIELD, DATED:
JUNE 30, 2016 TO DETERMINE IF THERE ANY
SUPPLEMENTAL OR SPECIAL INSTALLATION
REQUIREMENTS, OR RELOCATION ARRANGEMENTS.

NOTE:

*RF DATA BASED ON PRELIMINARY INFORMATION. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.







T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 OFFICE: (860) 648-1116



TRANSCEND WIRELESS 10 INDUSTRIAL AVE MAHWAH, NJ 07430

FAX:(201) 684-005



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 TEL: [978] 557-5553 N. ANDOVER, MA 01845 FAX: [978] 336-558

, MA 01845 FAX: (978) 336-55



CHECKED BY:

APPROVED BY:

SUBMITTALS

DJC

	30BMITTAL3					
REV.	DATE DESCRIPTION					
1	07/20/16	ISSUED FOR CONSTRUCTION	۷P			
0	04/22/16	ISSUED FOR REVIEW	VP			

SITE NUMBER:
CT11634C
SITE NAME:
CT634/CING/
CHESLEY PARK_ET

SITE ADDRESS: 35 WILDWOOD STREET NEW BRITAIN, CT 06051 HARTFORD COUNTY

SHEET TITLE

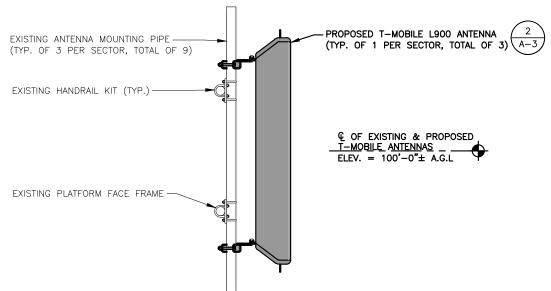
ANTENNA LAYOUT & ELEVATION

SHEET NUMBE

A-2

PRIOR TO COMMENCING CONSTRUCTION, GC HALL REFER TO STRUCTURAL ANALYSIS PROVIDED BY MORRISON HERSHFIELD, DATED: JUNE 30, 2016 TO DETERMINE IF THERE ANY SUPPLEMENTAL OR SPECIAL INSTALLATION REQUIREMENTS, OR RELOCATION ARRANGEMENTS. NOTE:

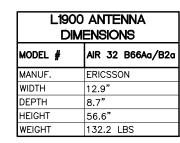
*RF DATA BASED ON PRELIMINARY INFORMATION. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

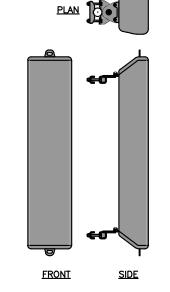


PROPOSED L1900 ANTENNA MOUNT

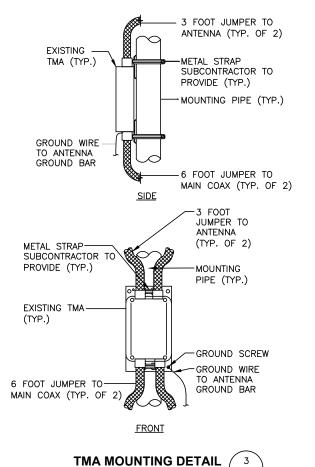
22×34 SCALE: 1"=1'-0" 11×17 SCALE: 1/2"=1'-0"











SCALE: N.T.S

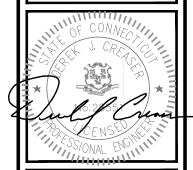


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CHECKED BY:

APPROVED BY:

DJC

	SUBMITTALS					
REV.	DATE	DESCRIPTION	BY			
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1		ISSUED FOR CONSTRUCTION	VP			
0	04/22/16	ISSUED FOR REVIEW	VP			

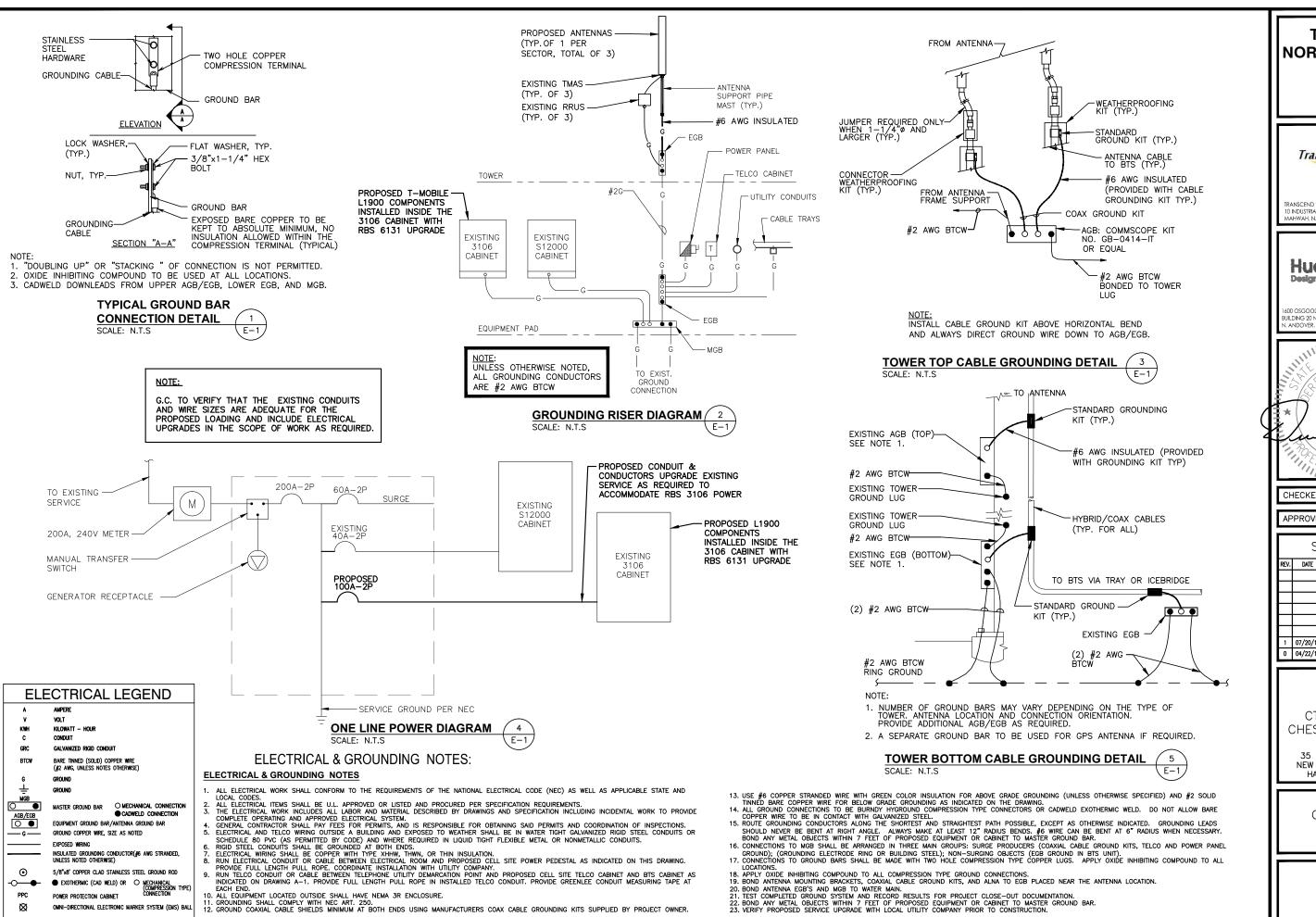
SITE NUMBER: CT11634C CT634/CING/ CHESLEY PARK_ET

SITE ADDRESS: 35 WILDWOOD STREET NEW BRITAIN, CT 06051 HARTFORD COUNTY

SHEET TITLE

DETAILS

A-3



T-MOBILE NORTHEAST LLC

> 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 OFFICE: (860) 648-1116



TRANSCEND WIRELESS 10 INDUSTRIAL AVE MAHWAH, NJ 07430



BUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-5. . ANDOVER. MA 01845



DR CHECKED BY:

DJC

APPROVED BY:

CLIDMITTALC

SUBMITTALS					
REV.	DATE	DESCRIPTION	BY		
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0	04/22/16	ISSUED FOR REVIEW	VP		

SITE NUMBER CT11634C CT634/CING/ CHESLEY PARK_ET

SITE ADDRESS: 35 WILDWOOD STREET NEW BRITAIN, CT 06051 HARTFORD COUNTY

> SHEET TITLE GROUNDING DIAGRAM

SHEET NUMBER

E-1