Transcend Wireless
48 Spruce Street
Oakland, NJ 07436
Phone: (203) 217-6200
Chris Bisson
Real Estate Consultant

May 7, 2014

Hand Delivered

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

RE: T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 1140 Wolcott Road, Wolcott, CT 06716. Known to T-Mobile Northeast LLC as site CT11477B.

Dear Ms. Bachman:

In order to accommodate technological changes, implement Global System for Mobile Communications Access ("GSM") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the state of Connecticut, T-Mobile Northeast LLC plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and its attachments is being sent to the chief elected official of the municipality in which affected cell site is located.

GSM employs Spread-Spectrum technology and special coding scheme to allow multiple users to be multiplexed over the same physical channel. LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

As part of the project the new multi-mode 800/1900 antenna will replace existing antennas. These antennas will provide more flexibility for optimization by allowing fast and easy electrical tilt adjustment from remote location and will enable the transmission of multiple technologies from a single antenna. As T-Mobile Northeast LLC network evolves to meet the demands of its customers, it is essential for T-Mobile Northeast LLC to install modern equipment and antennas in order to provide reliable wireless voice and data services. The proposed equipment will include multi-mode radios that will allow T-Mobile Northeast LLC to transmit at different frequencies using different technologies, including LTE technology. Likewise, the proposed antennas are quad-pole multi-band

high gain antennas that will allow T-Mobile Northeast LLC to operate using its multiple frequency bands and technologies, including LTE technology. The proposed equipment and antennas will improve the reliability, coverage and capacity of T-Mobile Northeast LLC voice and data networks across T-Mobile Northeast LLC various FCC licensed frequency bands and significantly increase the data speeds of T-Mobile Northeast LLC 's network by utilizing the latest LTE technology. Without the proposed modifications T-Mobile Northeast LLC will be unable to provide reliable wireless voice and data service using the latest technologies.

T-Mobile Northeast LLC will have an interim (testing) period during the modification/installation prior to the final configuration. This antenna configuration is shown on the attached drawings of the planned modifications. Also included is the power density calculation reflecting the change in T-Mobile Northeast LLC operations at the site and documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modification as defined Connecticut General Statues ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for the R.C.S.A. Section 16-50j-72(b)(2).

- 1. The height of the overall structure will not be affected.
- 2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.
- 3. The proposed changes will not increase the noise level at the existing facility by 6 decibels or more.
- 4. Radio Frequency power density may increase due to the use of one or more GSM transmissions. Moreover, LTE will utilize additional radio frequencies newly licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons T-Mobile Northeast LLC respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (845) 499-4712 or email jnotaro@transcendwireless.com with questions concerning this matter. Thank you for your consideration.

Sincerely,

Jennifer Notaro (845) 499-4712



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

T-Mobile Existing Facility

Site ID: CT11477B

CT477/General Comm SST

1140 Wolcott Road Wolcott, CT 06716

May 7, 2014

EBI PROJECT NUMBER: 62142841



May 7, 2014

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

Re: Emissions Values for Site: CT11477B - CT477/General Comm SST

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 1140 Wolcott Road, Wolcott, 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 97-01 and 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 cellular band is 567 μ W/cm2, and the general population exposure limit for the PCS and 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 1140 Wolcott Road, Wolcott, 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, the actual antenna pattern gain value in the direction of the sample area was used. For this report the sample point is 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 (1935.000 MHz—to 1945.000 MHz / 1980.000 MHz—to 1985.000 MHz) were considered for each sector of the proposed installation.
- 2) 2 UMTS channels (2110.000 to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation.
- 3) 2 LTE channels (2110.000 to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation.
- 4) 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.
- 5) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 6) The antenna used in this modeling is the Ericsson AIR21 for LTE, UMTS and GSM. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.6 dBd gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications



- 7) The antenna mounting height centerline of the proposed antennas is **162 feet** above ground level (AGL)
- 8) 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.

Site ID	CT11477B - CT477/General Comm SST
Site Addresss	1140 Wolcott Road, Wolcott, CT 06716
Site Type	Self Support Tower

	Sector 1																
Antenna Number 1a 1b 2a 2B	Antenna Make Ericsson Ericsson Ericsson Ericsson	Antenna Model AIR21 B4A/B2P AIR21 B4A/B2P AIR21 B2A / B4P AIR21 B2A / B4P	Status Active Not Used Active Passive	Frequency Band AWS - 2100 MHz - PCS - 1950 MHz AWS - 2100 MHz	Technology LTE - GSM / UMTS UMTS	Power Out Per Channel (Watts) 60 30 30	Number of Channels 2 2 2	Composite Power 120 0 60 60	Antenna Gain in direction of sample point (dBd) -3.95 -3.95 -3.95	Antenna Height (ft) 162 162 162 162	analysis height 156 156 156 156	None None 1-5/8" 1-5/8"	(dB) 0 0 0	Additional Loss 0 0 0 0	ERP 48.326044 0 24.163022 24.163022 0.143%	Power Density Value 0.713901 0 0.356951 0.356951	Power Density Percentage 0.07139% 0.0000% 0.03570%
	Sector 2																
Antenna Number 1a 1b 2a 2b	Antenna Make Ericsson Ericsson Ericsson Ericsson	Antenna Model AIR21 B4A/B2P AIR21 B4A/B2P AIR21 B2A / B4P AIR21 B2A / B4P	Status Active Not Used Active Passive	Frequency Band AWS - 2100 MHz - PCS - 1950 MHz AWS - 2100 MHz	Technology LTE - GSM / UMTS UMTS	Power Out Per Channel (Watts) 60 30 30	Number of Channels 2 2 2	Composite Power 120 0 60 60	Antenna Gain in direction of sample point (dBd) -3.95 -3.95 -3.95 -3.95	Antenna Height (ft) 162 162 162 162	analysis height 156 156 156	None None 1-5/8" 1-5/8"	(dB) 0 0 0	Additional Loss 0 0 0 0	ERP 48.326044 0 24.163022 24.163022 0.143%	Power Density Value 0.713901 0 0.356951 0.356951	Power Density Percentage 0.07139% 0.0000% 0.03570% 0.03570%
							Se	ctor 3									
Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	162	156	None	(ub) 0	0	48.326044	0.713901	0.07139%
1b	Ericsson	AIR21 B4A/B2P	Not Used		LIE	00		0	-3.95	162	156	None	0	0	0	0.713901	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	162	156	1-5/8"	0	0		0.356951	0.03570%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	162	156	1-5/8"	0	0	24.163022	0.356951	0.03570%
	2233011			2200 111112	23				2.55					ensity Value:		2.220301	2.2237070

Site C	Site Composite MPE %					
Carrier	MPE %					
T-Mobile	0.428%					
Verizon Wireless	13.470%					
2-Way Radio	0.400%					
Total Site MPE %	14.298%					



Summary

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

The anticipated Maximum Composite contributions from the T-Mobile facility are **0.428%** (**0.143% from each sector**) of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **14.298**% 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 within the allowable 100% threshold standard per the federal government.

Scott Heffernan

RF Engineering Director

EBI Consulting

21 B Street

Burlington, MA 01803



Structural Analysis Report

Structure : 180 ft Self Supported Tower

ATC Site Name : Levesque CT, CT

ATC Site Number : 275375

Engineering Number : 58044421

Proposed Carrier : T-Mobile

Carrier Site Name : Levesque CT

Carrier Site Number : CT11477B

Site Location : 1140 Wolcott Road

Wolcott, CT 06716-1514

41.617550,-72.974592

County : New Haven

Date : April 25, 2014

Max Usage : 88%

Result : Pass

Joshua L. Johnson, E.I.



Apr 25 2014 5:48 PM



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft self supported tower to reflect the change in loading by T-Mobile.

Supporting Documents

Tower Drawings Rohn Drawing #B881302, dated November 28, 1988			
Foundation Drawing Rohn Drawing #A881602-1, dated December 7, 1988			
Geotechnical Report	CTB Project #88-718, dated November 22, 1988		

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	95 mph (3-Second Gust)		
Basic Wind Speed w/ Ice: 50 mph (3-Second Gust) w/ 3/4" radial ice concurrent			
Code:	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment		
Structure Class:	II .		
Exposure Category:	В		
Topographic Category:	1		

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elevation	tion ¹ (ft) Qty		Antenna	Mount Tuno	Lines	Carrier	
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier	
180.0	187.0	2	15' Omni	Leg	(2) 1/2" Coax	Unknown	
174.0	180.0	1	12' Omni	Side Arms	(1) 1/2" Coax	UNKNOWN	
162.0	-	-	-	Sector Frames	(12) 1 5/8" Coax	T-Mobile	
103.0	112.0	1	18' Dipole	Leg	(1) 1/2" Coax		
84.0	94.0	1	20' Omni	Side Arm	(1) 1/2" Coax		
61.0	72.0	1	18' Omni	Side Arm	(1) 1/2" Coax	Unknown	
55.0	66.0	1	18' Omni	Side Arm	(1) 1/2" Coax		
45.0	50.0	1	10' Dipole	Leg	(1) 1/2" Coax		

Equipment to be Removed

Elevation ¹ (ft) Mount RAD	Qty	Antenna	Mount Type	Lines	Carrier		
No loading considered as to be removed							

Proposed Equipment

Elevation	on¹ (ft)	Otr	Antonna	Mount Tuno	Linos	Carrier
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier
			Ericsson AIR 21, 1.3M, B4A B2P			
162.0	162.0	3	Ericsson AIR 21, 1.3M, B2A	Sector Frames	(1) 1 5/8" Hybriflex	T-Mobile
			Ericsson KRY 112 144/1			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax stacked on top of existing T-Mobile coax.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	88%	Pass
Diagonals	84%	Pass
Horizontals	12%	Pass
Anchor Bolts	45%	Pass
Leg Bolts	51%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Uplift (Kips)	109.8	148.2	109.2	74%
Axial (Kips)	122.5	165.4	130.9	79%
Shear (Kips)	20.7	27.9	23.5	84%

^{*} The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
162.0	0.302	0.101	0.300

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



Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- -- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- -- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, Inc. and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

© 2007 - 2014 by ATC IP LLC. All rights reserved. Loads: 95 mph no ice 180.00 50 mph w / 3/4" radial ice 60 mph Serviceability Sect 10 160.00 Sect 9 140.00 Sect 8 120.00 113.(Sect 7 Sect 6 100.00 Sect 5 80.00 Sect 4 60.00 Sect 3 40.00 Sect 2 20.00 Sect 1

Uplift 109.19 k Moment 2,233.07 kMoment Ice 869.12 k-ft Vert 130.90 k Tot Down 20.45 k Tot Down Ice 66.38 k Horiz 13.83 k Tot Shear 23.49 k Tot Shear Ice 8.91 k

Uplift 109.19 k

Job Information

Tower: 275375 Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G Shape : Triangle Base Width: 20.78 ft Top Width: 6.42 ft Client: T- Mobile

		Se	ections Properties	
Section	Leg Mem	bers	Diagonal Members	Horizontal Members
1	PST 50 ksi	5" DIA PIPE	SAE 50 ksi 3.5X3.5X0.25	
2 - 3	PX 50 ksi	4" DIA PIPE	SAE 50 ksi 3X3X0.1875	
4 - 5	PX 50 ksi	3" DIA PIPE	SAE 36 ksi 2.5X2.5X0.1875	
6	PX 50 ksi	2-1/2" DIA PIPE	SAE 36 ksi 2X2X0.1875	SAE 36 ksi 3X3X0.1875
7	PX 50 ksi	2-1/2" DIA PIPE	SAE 36 ksi 2X2X0.1875	
8	PX 50 ksi	2-1/2" DIA PIPE	SAE 36 ksi 1.5X1.5X0.125	SAE 36 ksi 2X2X0.125
9	PST 50 ksi	2" DIA PIPE	SAE 36 ksi 1.5X1.5X0.125	
10	PST 50 ksi	2" DIA PIPE	SAE 36 ksi 1.5X1.5X0.125	SAE 36 ksi 2X2X0.125

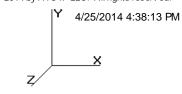
ks	si 2" [DIA PIPE	9	SAE 3	6 ksi 1.5X1.5X0.125	SAE 36 ksi 2X2X0.125
1				D	iscrete Appurter	nance
	Elev					
	(†t)	Туре		Qty	Description	
	180.00	Whip		2	15' Omni	
	174.00	Straight	Arm	3	Round Side Arm	
	174.00	Whip		1	12' Omni	
	162.00	Panel		3	Ericsson AIR 21, 1.3M	
	162.00	Panel		3	Ericsson AIR 21, 1.3M	
	162.00	Panel		3	Ericsson KRY 112 144	V/1
	162.00	Mounting	g Fram		Round Sector Frame	
	103.00	Whip		1	18' Dipole	
	84.00	Straight	Arm	1	Round Side Arm	
	84.00	Whip		1	20' Omni	
	61.00	Straight	Arm	1	Round Side Arm	
	61.00	Whip	_	1	18' Omni	
	55.00	Straight	Arm		Round Side Arm	
	55.00 45.00	Whip		1 1	18' Omni	
ı	45.00	Whip		1	10' Dipole	
				Ĺ	inear Appurten	ance
	Elev	v (ft)				
ı	From	Ťo	Qty	Des	cription	
ı	5.000	180.00	2	1/2"	Coax	_
ı	5.000	174.00	1	1/2"	Coax	
	5.000	162.00	1		equide	
	5.000	162.00	1	1 5/8	B" Hybriflex	
ı	5.000	162.00	12	1 5/8	3" Coax	
	5.000	103.00	1		Coax	
	5.000	84.000	1		Coax	
	5.000	61.000	1		Coax	
	5.000	55.000	1		Coax	
ı	5.000	45.000	1	1/2"	Coax	

Site Number: 275375 © 2007 - 2014 by ATC IP LLC. All rights reserved.

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



Section Forces

LoadCase 1.2D + 1.6W Normal 95.00 mph Normal to Face with No Ice

Gust Response Factor: 0.85

Dead Load Factor: 1.20 Wind Importance Factor: 1.00

Wind Load Factor: 1.60

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Area	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)		Weight Ice (lb)	Force	Linear Force (lb)	Total Force (lb)
10	170.0	22.58	10.15	7.92	0.00	0.14	2.82	1.00	1.00	0.00	14.63	7.46	0.00	683.3	0.0	1,268.08	162.68	1,430.75
9	150.0	21.79	9.11	7.92	0.00	0.13	2.85	1.00	1.00	0.00	13.59	49.38	0.00	1,016.4	0.0	1,148.40	1,031.8	2,180.29
8	130.0	20.92	9.64	9.60	0.00	0.13	2.86	1.00	1.00	0.00	15.07	49.38	0.00	1,326.2	0.0	1,227.50	990.55	2,218.05
7	116.8	20.29	3.46	3.04	0.00	0.11	2.91	1.00	1.00	0.00	5.18	15.63	0.00	495.0	0.0	415.32	304.08	719.41
6	106.8	19.78	9.97	6.56	0.00	0.12	2.89	1.00	1.00	0.00	13.68	33.91	0.00	1,205.6	0.0	1,062.02	640.18	1,702.20
5	90.00	18.83	16.21	11.69	0.00	0.12	2.90	1.00	1.00	0.00	22.81	50.64	0.00	2,045.0	0.0	1,691.80	892.15	2,583.95
4	70.00	17.53	18.54	11.69	0.00	0.11	2.93	1.00	1.00	0.00	25.14	51.53	0.00	2,171.7	0.0	1,756.73	830.59	2,587.32
3	50.00	15.92	18.11	15.02	0.00	0.10	2.95	1.00	1.00	0.00	24.07	53.58	0.00	2,504.5	0.0	1,539.06	754.99	2,294.06
2	30.00	13.76	19.85	15.02	0.00	0.10	2.98	1.00	1.00	0.00	28.32	54.63	0.00	2,600.8	0.0	1,579.38	652.70	2,232.08
1	10.00	13.75	25.13	18.57	0.00	0.11	2.93	1.00	1.00	0.00	32.53	40.97	0.00	3,221.9	0.0	1,783.31	489.11	2,272.43
														17,270.4	0.0		2	20,220.53

<u>LoadCase</u> 1.2D + 1.6W 60 deg 95.00 mph 60 deg with No Ice

Gust Response Factor: 0.85

Dead Load Factor: 1.20 Wind Importance Factor: 1.00

Wind Load Factor: 1.60

_	Wind Height		Total Flat Area	Total Round Area	Area	Sol	•	.		Ice Thick		Linear Area	Ice Linear Area	Weight	Weight	Force		Force
Seq	(ft)	(psf)	(sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	Ice (Ib)	(lb)	(lb)	(lb)
10	170.0	22.58	10.15	7.92	0.00	0.14	2.82	0.80	1.00	0.00	12.60	7.46	0.00	683.3	0.0	1,092.18	162.68	1,254.85
9	150.0	21.79	9.11	7.92	0.00	0.13	2.85	0.80	1.00	0.00	11.77	49.38	0.00	1,016.4	0.0	994.42	1,031.8	2,026.31
8	130.0	20.92	9.64	9.60	0.00	0.13	2.86	0.80	1.00	0.00	13.14	49.38	0.00	1,326.2	0.0	1,070.44	990.55	2,060.99
7	116.8	20.29	3.46	3.04	0.00	0.11	2.91	0.80	1.00	0.00	4.48	15.63	0.00	495.0	0.0	359.81	304.08	663.89
6	106.8	19.78	9.97	6.56	0.00	0.12	2.89	0.80	1.00	0.00	11.69	33.91	0.00	1,205.6	0.0	907.19	640.18	1,547.37
5	90.00	18.83	16.21	11.69	0.00	0.12	2.90	0.80	1.00	0.00	19.57	50.64	0.00	2,045.0	0.0	1,451.37	892.15	2,343.52
4	70.00	17.53	18.54	11.69	0.00	0.11	2.93	0.80	1.00	0.00	21.43	51.53	0.00	2,171.7	0.0	1,497.63	830.59	2,328.22
3	50.00	15.92	18.11	15.02	0.00	0.10	2.95	0.80	1.00	0.00	20.44	53.58	0.00	2,504.5	0.0	1,307.39	754.99	2,062.38
2	30.00	13.76	19.85	15.02	0.00	0.10	2.98	0.80	1.00	0.00	24.36	54.63	0.00	2,600.8	0.0	1,358.05	652.70	2,010.75
1	10.00	13.75	25.13	18.57	0.00	0.11	2.93	0.80	1.00	0.00	27.50	40.97	0.00	3,221.9	0.0	1,507.82	489.11	1,996.93
														17,270.4	0.0			18,295.23

<u>LoadCase</u> <u>1.2D + 1.6W 90 deg</u> 95.00 mph 90 deg with No Ice

Gust Response Factor: 0.85

Dead Load Factor: 1.20 Wind Importance Factor: 1.00

Wind Load Factor: 1.60

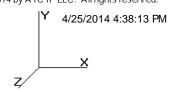
				Total	Total	Ice								Ice						
		Wind		Flat	Round	Round					Ice	Eff	Linear	Linear	Total		Struct	Linear	Total	
Se	ect l	-leight	qz	Area	Area	Area	Sol				Thick	Area	Area	Area	Weight	Weight	Force	Force	Force	
Se	q	(ft)	(psf)	(sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	Ice (Ib)	(lb)	(lb)	(lb)	
	10	170.0	22.58	10.15	7.92	0.00	0.14	2.82	0.85	1.00	0.00	13.11	7.46	0.00	683.3	0.0	1.136.15	162.68	1.298.83	

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



Section Forces

9	150.0	21.79	9.11	7.92	0.00	0.13	2.85 0.85 1.00	0.00	12.22	49.38	0.00	1,016.4	0.0	1,032.91	1,031.8 2,064.80
8	130.0	20.92	9.64	9.60	0.00	0.13	2.86 0.85 1.00	0.00	13.62	49.38	0.00	1,326.2	0.0	1,109.70	990.55 2,100.26
7	116.8	3 20.29	3.46	3.04	0.00	0.11	2.91 0.85 1.00	0.00	4.66	15.63	0.00	495.0	0.0	373.69	304.08 677.77
6	106.8	3 19.78	9.97	6.56	0.00	0.12	2.89 0.85 1.00	0.00	12.19	33.91	0.00	1,205.6	0.0	945.90	640.18 1,586.08
5	90.00	18.83	16.21	11.69	0.00	0.12	2.90 0.85 1.00	0.00	20.38	50.64	0.00	2,045.0	0.0	1,511.48	892.15 2,403.63
4	70.00	17.53	18.54	11.69	0.00	0.11	2.93 0.85 1.00	0.00	22.36	51.53	0.00	2,171.7	0.0	1,562.40	830.59 2,392.99
3	50.00	15.92	18.11	15.02	0.00	0.10	2.95 0.85 1.00	0.00	21.35	53.58	0.00	2,504.5	0.0	1,365.31	754.99 2,120.30
2	30.00	13.76	19.85	15.02	0.00	0.10	2.98 0.85 1.00	0.00	25.35	54.63	0.00	2,600.8	0.0	1,413.38	652.70 2,066.08
1	10.00	13.75	25.13	18.57	0.00	0.11	2.93 0.85 1.00	0.00	28.76	40.97	0.00	3,221.9	0.0	1,576.70	489.11 2,065.81
												17,270.4	0.0		18,776.55

LoadCase 0.9D + 1.6W Normal

95.00 mph Normal to Face with No Ice (Reduced DL)

Gust Response Factor: 0.85

Dead Load Factor: 0.90 Wind Importance Factor: 1.00

Wind Load Factor: 1.60

Wind Sect Height Seq (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Area	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Force	Linear Force (lb)	Total Force (lb)
10 170.0	22.58	10.15	7.92	0.00	0.14	2.82	1.00	1.00	0.00	14.63	7.46	0.00	512.5	0.0	1,268.08	162.68	1,430.75
9 150.0	21.79	9.11	7.92	0.00	0.13	2.85	1.00	1.00	0.00	13.59	49.38	0.00	762.3	0.0	1,148.40	1,031.8	2,180.29
8 130.0	20.92	9.64	9.60	0.00	0.13	2.86	1.00	1.00	0.00	15.07	49.38	0.00	994.6	0.0	1,227.50	990.55	2,218.05
7 116.8	20.29	3.46	3.04	0.00	0.11	2.91	1.00	1.00	0.00	5.18	15.63	0.00	371.2	0.0	415.32	304.08	719.41
6 106.8	19.78	9.97	6.56	0.00	0.12	2.89	1.00	1.00	0.00	13.68	33.91	0.00	904.2	0.0	1,062.02	640.18	1,702.20
5 90.00	18.83	16.21	11.69	0.00	0.12	2.90	1.00	1.00	0.00	22.81	50.64	0.00	1,533.7	0.0	1,691.80	892.15	2,583.95
4 70.00	17.53	18.54	11.69	0.00	0.11	2.93	1.00	1.00	0.00	25.14	51.53	0.00	1,628.8	0.0	1,756.73	830.59	2,587.32
3 50.00	15.92	18.11	15.02	0.00	0.10	2.95	1.00	1.00	0.00	24.07	53.58	0.00	1,878.4	0.0	1,539.06	754.99	2,294.06
2 30.00	13.76	19.85	15.02	0.00	0.10	2.98	1.00	1.00	0.00	28.32	54.63	0.00	1,950.6	0.0	1,579.38	652.70	2,232.08
1 10.00	13.75	25.13	18.57	0.00	0.11	2.93	1.00	1.00	0.00	32.53	40.97	0.00	2,416.4	0.0	1,783.31	489.11	2,272.43
												1	12,952.8	0.0		:	20,220.53

<u>LoadCase</u> 0.9D + 1.6W 60 deg

95.00 mph 60 deg with No Ice (Reduced DL)

Gust Response Factor: 0.85

Dead Load Factor: 0.90 Wind Importance Factor: 1.00

Wind Load Factor: 1.60

Wind	Total Flat	Total Round	Ice Round					Ice	Eff	Linear	lce Linear	Total		Struct	Linear	Total
Sect Height qz	Area	Area	Area	Sol				Thick	Area	Area	Area	Weight	Weight	Force	Force	Force
Seq (ft) (psf	(sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	Ice (lb)	(lb)	(lb)	(lb)
10 170.0 22.5	10.15	7.92	0.00	0.14	2.82	0.80	1.00	0.00	12.60	7.46	0.00	512.5	0.0	1,092.18	162.68	1,254.85
9 150.0 21.79	9.11	7.92	0.00	0.13	2.85	0.80	1.00	0.00	11.77	49.38	0.00	762.3	0.0	994.42	1,031.8	2,026.31
8 130.0 20.92	9.64	9.60	0.00	0.13	2.86	0.80	1.00	0.00	13.14	49.38	0.00	994.6	0.0	1,070.44	990.55	2,060.99
7 116.8 20.29	3.46	3.04	0.00	0.11	2.91	0.80	1.00	0.00	4.48	15.63	0.00	371.2	0.0	359.81	304.08	663.89
6 106.8 19.78	9.97	6.56	0.00	0.12	2.89	0.80	1.00	0.00	11.69	33.91	0.00	904.2	0.0	907.19	640.18	1,547.37
5 90.00 18.83	16.21	11.69	0.00	0.12	2.90	0.80	1.00	0.00	19.57	50.64	0.00	1,533.7	0.0	1,451.37	892.15	2,343.52
4 70.00 17.5	18.54	11.69	0.00	0.11	2.93	0.80	1.00	0.00	21.43	51.53	0.00	1,628.8	0.0	1,497.63	830.59	2,328.22
3 50.00 15.92	18.11	15.02	0.00	0.10	2.95	0.80	1.00	0.00	20.44	53.58	0.00	1,878.4	0.0	1,307.39	754.99	2,062.38
2 30.00 13.70	19.85	15.02	0.00	0.10	2.98	0.80	1.00	0.00	24.36	54.63	0.00	1,950.6	0.0	1,358.05	652.70	2,010.75
1 10.00 13.75	25.13	18.57	0.00	0.11	2.93	0.80	1.00	0.00	27.50	40.97	0.00	2,416.4	0.0	1,507.82	489.11	1,996.93
												12,952.8	0.0			18,295.23

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B

Topo: 1



Section Forces

LoadCase 0.9D + 1.6W 90 deg

95.00 mph 90 deg with No Ice (Reduced DL)

Gust Response Factor: 0.85 Dead Load Factor: 0.90

Wind Importance Factor: 1.00

Wind Load Factor: 1.60

Wind Sect Height qz Seq (ft) (psf)	Total To Flat Rou Area Are (sqft) (sq	nd Round a Area	Sol Ratio	Cf Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Force	Linear Force (lb)	Total Force (lb)
10 170.0 22.58	10.15 7	.92 0.00	0.14	2.82 0.85	1.00	0.00	13.11	7.46	0.00	512.5	0.0	1,136.15	162.68	1,298.83
9 150.0 21.79	9.11 7	.92 0.00	0.13	2.85 0.85	1.00	0.00	12.22	49.38	0.00	762.3	0.0	1,032.91	1,031.8	2,064.80
8 130.0 20.92	9.64 9	.60 0.00	0.13	2.86 0.85	1.00	0.00	13.62	49.38	0.00	994.6	0.0	1,109.70	990.55	2,100.26
7 116.8 20.29	3.46 3	.04 0.00	0.11	2.91 0.85	1.00	0.00	4.66	15.63	0.00	371.2	0.0	373.69	304.08	677.77
6 106.8 19.78	9.97	.56 0.00	0.12	2.89 0.85	1.00	0.00	12.19	33.91	0.00	904.2	0.0	945.90	640.18	1,586.08
5 90.00 18.83	16.21 11	.69 0.00	0.12	2.90 0.85	1.00	0.00	20.38	50.64	0.00	1,533.7	0.0	1,511.48	892.15	2,403.63
4 70.00 17.53	18.54 11	.69 0.00	0.11	2.93 0.85	1.00	0.00	22.36	51.53	0.00	1,628.8	0.0	1,562.40	830.59	2,392.99
3 50.00 15.92	18.11 15	.02 0.00	0.10	2.95 0.85	1.00	0.00	21.35	53.58	0.00	1,878.4	0.0	1,365.31	754.99	2,120.30
2 30.00 13.76	19.85 15	.02 0.00	0.10	2.98 0.85	1.00	0.00	25.35	54.63	0.00	1,950.6	0.0	1,413.38	652.70	2,066.08
1 10.00 13.75	25.13 18	.57 0.00	0.11	2.93 0.85	1.00	0.00	28.76	40.97	0.00	2,416.4	0.0	1,576.70	489.11	2,065.81
									1	12,952.8	0.0		1	18,776.55

LoadCase 1.2D + 1.0Di + 1.0Wi Normal

50.00 mph Normal with 0.75 in Radial Ice

Gust Response Factor: 0.85

Dead Load Factor: 1.20 Wind Importance Factor: 1.00 Ice Importance Factor: 1.00

Wind Load Factor: 1.00 Ice Dead Load Factor: 1.00

	Total	Total	Ice								Ice					
Wind	Flat	Round	Round					Ice	Eff	Linear	Linear	Total		Struct	Linear	Total
Sect Height qz	Area	Area	Area	Sol				Thick	Area	Area	Area	Weight	Weight	Force	Force	Force
Seq (ft) (psf)	(sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	Ice (lb)	(lb)	(lb)	(lb)
10 170.0 6.26	10.15	43.64	35.72	0.39	2.09	1.00	1.00	1.77	37.71	8.05	23.56	3,350.2	2,666.9	418.30	122.01	540.30
9 150.0 6.04	9.11	41.33	33.41	0.37	2.14	1.00	1.00	1.75	34.81	55.20	93.08	5,518.7	4,502.4	381.73	565.20	946.92
8 130.0 5.79	9.64	43.23	33.63	0.33	2.21	1.00	1.00	1.72	36.00	55.12	91.76	5,870.8	4,544.6	392.35	562.02	954.37
7 116.8 5.62	3.46	12.66	9.62	0.27	2.37	1.00	1.00	1.70	10.94	17.42	28.73	1,927.8	1,432.8	123.76	184.88	308.65
6 106.8 5.48	9.97	30.18	23.62	0.28	2.34	1.00	1.00	1.69	27.90	37.75	62.34	4,588.0	3,382.4	304.24	382.62	686.86
5 90.00 5.22	16.21	44.75	33.06	0.25	2.44	1.00	1.00	1.66	42.39	56.17	95.08	7,177.0	5,132.0	457.93	549.20	1,007.12
4 70.00 4.86	18.54	46.95	35.26	0.23	2.50	1.00	1.00	1.62	45.78	56.93	97.30	7,484.2	5,312.5	472.28	515.78	988.06
3 50.00 4.41	18.11	44.74	29.71	0.19	2.62	1.00	1.00	1.56	43.75	58.79	104.24	7,724.3	5,219.8	430.47	479.80	910.27
2 30.00 3.81	19.85	44.98	29.95	0.18	2.68	1.00	1.00	1.49	45.51	59.58	104.00	7,729.6	5,128.8	394.81	408.54	803.36
1 10.00 3.81	25.13	46.99	28.41	0.18	2.68	1.00	1.00	1.33	51.94	44.30	69.89	7,687.1	4,465.2	450.16	285.99	736.15
												59,057.9	41,787.5			7,882.06

LoadCase 1.2D + 1.0Di + 1.0Wi 60 deg

50.00 mph 60 deg with 0.75 in Radial Ice

Gust Response Factor: 0.85

Dead Load Factor: 1.20 Wind Importance Factor: 1.00 Wind Load Factor: 1.00 Ice Dead Load Factor: 1.00 Ice Importance Factor: 1.00

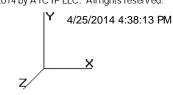
Ice Total Total Ice Wind Flat Round Round Eff Linear Linear Struct Linear Total Total lce Sect Height qz Area Area Area Sol Thick Area Area Weight Weight Force Force **Force** Area Seq Ice (lb) (ft) (psf) (sqft) (sqft) (sqft) Ratio Cf Df Dr (in) (sqft) (sqft) (sqft) (lb) (lb) (lb) (lb) 10 170.0 6.26 10.15 43.64 35.72 0.39 2.09 0.80 1.00 1.77 8.05 23.56 3,350.2 2,666.9 395.78 122.01 517.79

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II
Exposure: B
Topo: 1



Section Forces

9 1	50.0	6.04	9.11	41.33	33.41	0.37	2.14 0.80 1.00	1.75	32.98	55.20	93.08	5,518.7	4,502.4	361.74	565.20	926.94
8 1	30.0	5.79	9.64	43.23	33.63	0.33	2.21 0.80 1.00	1.72	34.07	55.12	91.76	5,870.8	4,544.6	371.34	562.02	933.36
7 1	16.8	5.62	3.46	12.66	9.62	0.27	2.37 0.80 1.00	1.70	10.25	17.42	28.73	1,927.8	1,432.8	115.94	184.88	300.83
6 1	06.8	5.48	9.97	30.18	23.62	0.28	2.34 0.80 1.00	1.69	25.90	37.75	62.34	4,588.0	3,382.4	282.48	382.62	665.10
59	0.00	5.22	16.21	44.75	33.06	0.25	2.44 0.80 1.00	1.66	39.15	56.17	95.08	7,177.0	5,132.0	422.91	549.20	972.10
4 7	0.00	4.86	18.54	46.95	35.26	0.23	2.50 0.80 1.00	1.62	42.08	56.93	97.30	7,484.2	5,312.5	434.03	515.78	949.81
3 5	0.00	4.41	18.11	44.74	29.71	0.19	2.62 0.80 1.00	1.56	40.13	58.79	104.24	7,724.3	5,219.8	394.83	479.80	874.62
2 3	0.00	3.81	19.85	44.98	29.95	0.18	2.68 0.80 1.00	1.49	41.55	59.58	104.00	7,729.6	5,128.8	360.38	408.54	768.93
1 1	0.00	3.81	25.13	46.99	28.41	0.18	2.68 0.80 1.00	1.33	46.92	44.30	69.89	7,687.1	4,465.2	406.61	285.99	692.60
												59.057.9	41.787.5			7.602.08

LoadCase 1.2D + 1.0Di + 1.0Wi 90 deg

50.00 mph 90 deg with 0.75 in Radial Ice

Gust Response Factor: 0.85 Dead Load Factor: 1.20

Wind Load Factor: 1.20 Ice Dead Load Factor: 1.00

Wind Importance Factor: 1.00 Ice Importance Factor: 1.00

Sect H	Wind leight (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Area	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	t Weight Ice (Ib)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
10 ′	170.0	6.26	10.15	43.64	35.72	0.39	2.09	0.85	1.00	1.77	36.19	8.05	23.56	3,350.2	2,666.9	401.41	122.01	523.42
9 ′	150.0	6.04	9.11	41.33	33.41	0.37	2.14	0.85	1.00	1.75	33.44	55.20	93.08	5,518.7	4,502.4	366.74	565.20	931.94
8 ′	130.0	5.79	9.64	43.23	33.63	0.33	2.21	0.85	1.00	1.72	34.55	55.12	91.76	5,870.8	4,544.6	376.59	562.02	938.61
7 ′	116.8	5.62	3.46	12.66	9.62	0.27	2.37	0.85	1.00	1.70	10.43	17.42	28.73	1,927.8	1,432.8	117.90	184.88	302.78
6 '	106.8	5.48	9.97	30.18	23.62	0.28	2.34	0.85	1.00	1.69	26.40	37.75	62.34	4,588.0	3,382.4	287.92	382.62	670.54
5 9	90.00	5.22	16.21	44.75	33.06	0.25	2.44	0.85	1.00	1.66	39.96	56.17	95.08	7,177.0	5,132.0	431.66	549.20	980.86
4	70.00	4.86	18.54	46.95	35.26	0.23	2.50	0.85	1.00	1.62	43.00	56.93	97.30	7,484.2	5,312.5	443.60	515.78	959.37
3 5	50.00	4.41	18.11	44.74	29.71	0.19	2.62	0.85	1.00	1.56	41.03	58.79	104.24	7,724.3	5,219.8	403.74	479.80	883.53
2 3	30.00	3.81	19.85	44.98	29.95	0.18	2.68	0.85	1.00	1.49	42.54	59.58	104.00	7,729.6	5,128.8	368.99	408.54	777.54
1 '	10.00	3.81	25.13	46.99	28.41	0.18	2.68	0.85	1.00	1.33	48.17	44.30	69.89	7,687.1	4,465.2	417.50	285.99	703.49
													;	59,057.9	41,787.5			7,672.07

LoadCase 1.0D + 1.0W Service Normal

Serviceability - 60.00 Wind Normal

Gust Response Factor: 0.85

Dead Load Factor: 1.00 Wind Importance Factor: 1.00 Wind Load Factor: 1.00

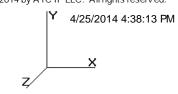
Total Total lce Ice Wind Eff Linear Linear Struct Linear Flat Round Round Ice Total Total Sect Height qz Area Area Area Sol Thick Area Area Area Weight Weight Force Force **Force** (ft) (psf) (sqft) (sqft) (sqft) Ratio Cf Df Dr (sqft) (sqft) (sqft) (lb) Ice (lb) (lb) (lb) (lb) (in) 10 170.0 9.01 10.15 7.92 0.00 0.14 2.82 1.00 1.00 0.00 14.63 7.46 0.00 569.4 0.0 316.14 40.56 356.70 13.59 9 150.0 7.92 2.85 1.00 1.00 0.00 49.38 0.00 847.0 286.30 257.26 8.69 9.11 0.00 0.13 0.0 543.56 8 130.0 8.34 9.64 9.60 0.00 0.13 2.86 1.00 1.00 0.00 15.07 49.38 0.00 1,105.2 0.0 306.02 246.95 552.98 3.46 3.04 0.11 2.91 1.00 1.00 0.00 5.18 15.63 0.00 412.5 103.54 75.81 179.35 7 116.8 8.09 0.00 0.0 9.97 6 106.8 7.89 6.56 0.00 0.12 2.89 1.00 1.00 0.00 13.68 33.91 0.00 1,004.7 0.0 264.77 159.60 424.37 5 90.00 7.51 16.21 11.69 0.00 0.12 2.90 1.00 1.00 0.00 22.81 50.64 0.00 1,704.1 0.0 421.78 222.42 644.20 4 70.00 6.99 18.54 11.69 0.00 0.11 2.93 1.00 1.00 0.00 25.14 51.53 0.00 1,809.8 0.0 437.97 207.07 645.04 50.00 6.35 18.11 15.02 0.00 0.10 2.95 1.00 1.00 0.00 26.59 53.58 0.00 2,087.1 0.0 424.00 188.23 612.23 2 30.00 5.49 19.85 15.02 0.00 0.10 2.98 1.00 1.00 0.00 28.32 54.63 0.00 2.167.3 0.0 393.75 162.72 556.47 10.00 5.48 25.13 18.57 0.00 0.11 2.93 1.00 1.00 0.00 35.61 40.97 0.00 2,684.9 0.0 486.74 121.94 608.68 14,392.0 0.0 5,123.58

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



Section Forces

<u>LoadCase</u> 1.0D + 1.0W Service 60 deg Serviceability - 60.00 Wind 60 deg

Gust Response Factor: 0.85

Dead Load Factor: 1.00 Wind Importance Factor: 1.00

Wind Load Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
10	170.0	9.01	10.15	7.92	0.00	0.14	2.82	0.80	1.00	0.00	12.60	7.46	0.00	569.4	0.0	272.29	40.56	312.84
9	150.0	8.69	9.11	7.92	0.00	0.13	2.85	0.80	1.00	0.00	11.77	49.38	0.00	847.0	0.0	247.92	257.26	505.17
8	130.0	8.34	9.64	9.60	0.00	0.13	2.86	0.80	1.00	0.00	13.14	49.38	0.00	1,105.2	0.0	266.87	246.95	513.82
7	116.8	8.09	3.46	3.04	0.00	0.11	2.91	0.80	1.00	0.00	4.48	15.63	0.00	412.5	0.0	89.70	75.81	165.51
6	106.8	7.89	9.97	6.56	0.00	0.12	2.89	0.80	1.00	0.00	11.69	33.91	0.00	1,004.7	0.0	226.17	159.60	385.77
5	90.00	7.51	16.21	11.69	0.00	0.12	2.90	0.80	1.00	0.00	19.57	50.64	0.00	1,704.1	0.0	361.84	222.42	584.26
4	70.00	6.99	18.54	11.69	0.00	0.11	2.93	0.80	1.00	0.00	21.43	51.53	0.00	1,809.8	0.0	373.37	207.07	580.44
3	50.00	6.35	18.11	15.02	0.00	0.10	2.95	0.80	1.00	0.00	22.97	53.58	0.00	2,087.1	0.0	366.25	188.23	554.47
2	30.00	5.49	19.85	15.02	0.00	0.10	2.98	0.80	1.00	0.00	24.36	54.63	0.00	2,167.3	0.0	338.57	162.72	501.30
1	10.00	5.48	25.13	18.57	0.00	0.11	2.93	0.80	1.00	0.00	30.59	40.97	0.00	2,684.9	0.0	418.06	121.94	540.00
													1	14,392.0	0.0			4,643.59

<u>LoadCase</u> 1.0D + 1.0W Service 90 deg Serviceability - 60.00 Wind 90 deg

Gust Response Factor: 0.85

Dead Load Factor: 1.00 Wind Importance Factor: 1.00

Wind Load Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Area	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)		Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
10	170.0	9.01	10.15	7.92	0.00	0.14	2.82	0.85	1.00	0.00	13.11	7.46	0.00	569.4	0.0	283.25	40.56	323.81
9	150.0	8.69	9.11	7.92	0.00	0.13	2.85	0.85	1.00	0.00	12.22	49.38	0.00	847.0	0.0	257.51	257.26	514.77
8	130.0	8.34	9.64	9.60	0.00	0.13	2.86	0.85	1.00	0.00	13.62	49.38	0.00	1,105.2	0.0	276.66	246.95	523.61
7	116.8	8.09	3.46	3.04	0.00	0.11	2.91	0.85	1.00	0.00	4.66	15.63	0.00	412.5	0.0	93.16	75.81	168.97
6	106.8	7.89	9.97	6.56	0.00	0.12	2.89	0.85	1.00	0.00	12.19	33.91	0.00	1,004.7	0.0	235.82	159.60	395.42
5	90.00	7.51	16.21	11.69	0.00	0.12	2.90	0.85	1.00	0.00	20.38	50.64	0.00	1,704.1	0.0	376.82	222.42	599.24
4	70.00	6.99	18.54	11.69	0.00	0.11	2.93	0.85	1.00	0.00	22.36	51.53	0.00	1,809.8	0.0	389.52	207.07	596.59
3	50.00	6.35	18.11	15.02	0.00	0.10	2.95	0.85	1.00	0.00	23.88	53.58	0.00	2,087.1	0.0	380.69	188.23	568.91
2	30.00	5.49	19.85	15.02	0.00	0.10	2.98	0.85	1.00	0.00	25.35	54.63	0.00	2,167.3	0.0	352.37	162.72	515.09
1	10.00	5.48	25.13	18.57	0.00	0.11	2.93	0.85	1.00	0.00	31.84	40.97	0.00	2,684.9	0.0	435.23	121.94	557.17
														14,392.0	0.0			4,763.59

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II
Exposure: B
Topo: 1



Tower Loading

Discrete Appurtenance Properties

A 11 = = l-			No	Ice	lce	•						Vort
Attach Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)	Len (ft)	Width (in)	Depth (in)	Ka	Orientatio Factor	Vert n Ecc (ft)
180.0	15' Omni	2	40.00	4.500	241.46	9.994	15.00	3.000	3.000	1.00	1.00	7.000
174.0	Round Side Arm	3	150.00	5.200	224.22	7.957	0.000	0.000	0.000	1.00	0.67	0.000
174.0	12' Omni	1	40.00	3.600	202.15	7.673	12.00	3.000	3.000	1.00	1.00	6.000
162.0	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	253.04	7.208	4.670	12.10	7.900	0.80	0.85	0.000
162.0	Ericsson AIR 21, 1.3M, B2A	3	83.00	6.050	254.59	7.163	4.670	12.00	8.000	0.80	0.86	0.000
162.0	Ericsson KRY 112 144/1	3	11.00	0.410	27.71	0.639	0.580	6.100	2.700	0.80	0.50	0.000
162.0	Round Sector Frame	3	300.00	14.400	673.23	31.195	0.000	0.000	0.000	0.75	0.75	0.000
103.0	18' Dipole	1	55.00	6.770	248.07	17.122	18.00	3.000	0.000	1.00	1.00	9.000
84.00	Round Side Arm	1	150.00	5.200	219.65	7.787	0.000	0.000	0.000	1.00	1.00	0.000
84.00	20' Omni	1	20.00	6.000	264.62	12.808	20.00	3.000	3.000	1.00	1.00	10.00
61.00	Round Side Arm	1	150.00	5.200	217.92	7.723	0.000	0.000	0.000	1.00	1.00	0.000
61.00	18' Omni	1	50.00	5.400	263.14	11.390	18.00	3.000	3.000	1.00	1.00	11.00
55.00	Round Side Arm	1	150.00	5.200	215.67	7.639	0.000	0.000	0.000	1.00	1.00	0.000
55.00	18' Omni	1	50.00	5.400	253.61	11.189	18.00	3.000	3.000	1.00	1.00	11.00
45.00	10' Dipole	1	30.00	3.760	129.97	9.136	10.00	3.000	3.000	1.00	1.00	5.000
	Totals	26	2651.50		6796.11			l	Number o	f Appurte	enances :	15

Linear Appurtenance Properties

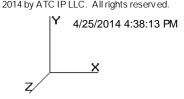
Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	n Ka Override
5.00	180.0	1/2" Coax	2	0.63	0.15	0	3	Individual	0.00	N	1.00	1.00	0.00
5.00	174.0	1/2" Coax	1	0.63	0.15	0	3	Individual	0.00	N	1.00	1.00	0.00
5.00	162.0	1 5/8" Coax	12	1.98	0.82	0	3	Individual	0.00	N	1.00	1.00	0.00
5.00	162.0	1 5/8" Hybriflex	1	1.98	1.30	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
5.00	162.0	Waveguide	1	2.00	6.00	0	3	Individual	0.00	N	1.00	1.00	0.00
5.00	103.0	1/2" Coax	1	0.63	0.15	0	1	Individual	0.00	N	1.00	1.00	0.01
5.00	84.00	1/2" Coax	1	0.63	0.15	0	1	Individual	0.00	N	1.00	1.00	0.01
5.00	61.00	1/2" Coax	1	0.63	0.15	0	2	Individual	0.00	N	1.00	1.00	0.01
5.00	55.00	1/2" Coax	1	0.63	0.15	0	3	Individual	0.00	N	1.00	1.00	0.01
5.00	45.00	1/2" Coax	1	0.63	0.15	0	3	Individual	0.00	N	1.00	1.00	0.01

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



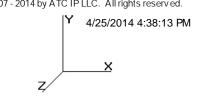
Section: 1 1		Bot Elev (ft): 0.0	00		Hei	ght (f	t): 20.	000						
	_	·		_		0.1	•	 -	phi			Shear			
	Force		Len	Bra	cing	g %		F'y	Pn			phiRnv	phiRn	Use	
Max Compression Member	(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG PST - 5" DIA PIPE	-127.37	1.2D + 1.6W	9.64	100	100	100	61.5	50.0	146.70	0	0	0.00	0.00	86	Member X
HORIZ	0.00		0.000	0	0	0 0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3.5X3.5X0.25	-4.22	1.2D + 1.6W 90	22.43	50	50	50	195.6	42.0	9.98	1	1	12.43	19.50	42	Member Z
									Shea	ar	Bear				
	Force		Fy	Fu		it Pn		Num	phiR		phiRn	Use	0	-1-	
Max Tension Member	(kip)	Load Case	(ksi)	(ksi	i)	(kip)	Bolts	Holes	(kip)	(kip)	%	Contr	OIS	
LEG PST - 5" DIA PIPE	109.86	0.9D + 1.6W 60	5	0 6	65 1	193.50	0	0	0.	00	0.00	56	Membe	er	
HORIZ	0.00		(0	0	0.00	0	0	0.	00	0.00	0			
DIAG SAE - 3.5X3.5X0.25	4.49	1.2D + 1.6W 90	5	0 6	65	54.94	1	1	12.	43	11.70	38	Bolt Be	ear	
	Force			Capa	citv	· L	lse	Num							
Max Splice Forces	(kip)	Load Case		(kip	-		%	Bolts	Bolt T	уре					
Top Tension	97.44	0.9D + 1.6W 60		0.	.00		0	0							
Top Compression	116.51	1.2D + 1.6W		0.	.00		0								
Bot Tension	109.86	0.9D + 1.6W 60		242.	28		4 5	4	1" A35	4-BC					
Bot Compression	131.26	1.2D + 1.6W		0.	.00		0								
Section: 2 2		Bot Elev (ft): 20	.00		Hei	ght (f	t): 20.	000						
	_			_		۰,		г	phi			Shear			
			Len	Rra	cing	n %			Pn	Num	Num	phiRnv	nhiDn	Use	
May Camanagaian Manster	Force				•	_		F'y							
Max Compression Member		Load Case	(ft)	Х	Υ	2 Z	KL/R	(ksi)			Holes		(kip)	%	Controls
LEG PX - 4" DIA PIPE	(kip)				•	Z		(ksi)	(kip)	Bolts				%	Controls Member X
	(kip)	Load Case	(ft)	Х	Υ	Z) 100	78.2	(ksi) 50.0	(kip)	Bolts 0	Holes	(kip)	(kip)	%	
LEG PX - 4" DIA PIPE	(kip) -112.21 0.00	Load Case	(ft) 9.64	X 100	100	Z 0 100 0 0	78.2	(ksi) 50.0 0.0	(kip) 126.94	Bolts 0 0	Holes 0	(kip) 0.00	(kip) 0.00	% 88 0	
LEG PX - 4" DIA PIPE HORIZ	(kip) -112.21 0.00	Load Case 1.2D + 1.6W	9.64 0.000	100 0	100 0 50	Z 0 100 0 0 0 50	78.2 0.0 207.8	(ksi) 50.0 0.0	(kip) 126.94 0.00	Bolts 0 0 1	Holes 0 0	0.00 0.00	0.00 0.00	% 88 0	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875	(kip) -112.21 0.00	Load Case 1.2D + 1.6W	9.64 0.000 20.64	100 0 50	100 0 50	Z 0 100 0 0 0 50 nit Pn	78.2 0.0 207.8 Num	50.0 0.0 44.0	(kip) 126.94 0.00 5.70	Bolts 0 0 1	Holes 0 0 1	0.00 0.00 12.43 Use	0.00 0.00 14.63	% 88 0 74	Member X
LEG PX - 4" DIA PIPE HORIZ	(kip) -112.21 0.00 -4.23	Load Case 1.2D + 1.6W	9.64 0.000 20.64	100 0 50	100 0 50	Z 0 100 0 0 0 50 nit Pn	78.2 0.0 207.8 Num	50.0 0.0 44.0	(kip) 126.94 0.00 5.70 Shea	Bolts 0 0 1 ar	Holes 0 0 1 Bear	0.00 0.00 12.43	0.00 0.00	% 88 0 74	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875	(kip) -112.21 0.00 -4.23 Force	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case	9.64 0.000 20.64	X 100 0 50 Fu (ksi	100 50 ph	Z 0 100 0 0 0 50 nit Pn	78.2 0.0 207.8 Num Bolts	50.0 0.0 44.0	(kip) 126.94 0.00 5.70 Shea phiR (kip	Bolts 0 0 1 ar	Holes 0 0 1 Bear phiRn	0.00 0.00 12.43 Use %	0.00 0.00 14.63	88 0 74	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Tension Member	(kip) -112.21 0.00 -4.23 Force (kip)	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case	9.64 0.000 20.64 Fy (ksi)	X 100 0 50 Fu (ksi	100 50 ph	Z 0 100 0 0 0 50 hit Pn (kip)	78.2 0.0 207.8 Num Bolts	50.0 0.0 44.0 Num Holes	(kip) 126.94 0.00 5.70 Shea phiR (kip	Bolts 0 0 1 ar nv	Holes 0 1 Bear phiRn (kip)	(kip) 0.00 0.00 12.43 Use %	0.00 0.00 14.63	88 0 74	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Tension Member LEG PX - 4" DIA PIPE	(kip) -112.21 0.00 -4.23 Force (kip) 97.59 0.00	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case	9.64 0.000 20.64 Fy (ksi)	X 100 0 50 Fu (ksi	Y 100 50 ph	Z) 100) 0) 50 hit Pn (kip) 198.45	78.2 0.0 207.8 Num Bolts 0	(ksi) 50.0 0.0 44.0 Num Holes	(kip) 126.94 0.00 5.70 Shea phiR (kip	0 0 1 ar nv)	Holes 0 0 1 Bear phiRn (kip) 0.00	0.00 0.00 12.43 Use %	0.00 0.00 14.63	% 88 0 74 ols	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Tension Member LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875	(kip) -112.21 0.00 -4.23 Force (kip) 97.59 0.00	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 0.9D + 1.6W 60	9.64 0.000 20.64 Fy (ksi)	X 100 0 50 Fu (ksi 0 0	Y 100 50 ph i) 65 1 0	Z 0 100 0 0 0 50 0 50 0 11t Pn (kip) 198.45 0.00 34.71	78.2 0.0 207.8 Num Bolts 0	50.0 0.0 44.0 Num Holes 0	(kip) 126.94 0.00 5.70 SheaphiRi (kip) 0.00	0 0 1 ar nv)	Holes 0 0 1 Bear phiRn (kip) 0.00 0.00	0.00 0.00 12.43 Use %	0.00 0.00 14.63 Contr	% 88 0 74 ols	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Tension Member LEG PX - 4" DIA PIPE HORIZ	(kip) -112.21 0.00 -4.23 Force (kip) 97.59 0.00 4.24	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 0.9D + 1.6W 60	9.64 0.000 20.64 Fy (ksi)	X 100 0 50 Fu (ksi	Y 1000 0 500 ph 65 1 0 0 65 city	Z 0 100 0 50 0 50 0 198.45 0.00 34.71	78.2 0.0 207.8 Num Bolts 0 0	(ksi) 50.0 0.0 44.0 Num Holes 0 1	(kip) 126.94 0.00 5.70 SheaphiRi (kip) 0.00	0 0 1 ar nv)) 00 00 43	Holes 0 0 1 Bear phiRn (kip) 0.00 0.00	0.00 0.00 12.43 Use %	0.00 0.00 14.63 Contr	% 88 0 74 ols	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Tension Member LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875	(kip) -112.21 0.00 -4.23 Force (kip) 97.59 0.00 4.24 Force	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 0.9D + 1.6W 60 1.2D + 1.6W 90 Load Case	9.64 0.000 20.64 Fy (ksi)	X 100 0 50 Fu (ksi 0 0 Capa (kip	Y 1000 0 500 ph 65 1 0 0 65 city	Z 0 100 0 0 0 50 0 50 0 198.45 0.00 34.71	78.2 0.0 207.8 Num Bolts 0 0 1	(ksi) 50.0 0.0 44.0 Num Holes 0 1	(kip) 126.94 0.00 5.70 SheaphiR (kip) 0.0	0 0 1 ar nv)) 00 00 43	Holes 0 0 1 Bear phiRn (kip) 0.00 0.00	0.00 0.00 12.43 Use %	0.00 0.00 14.63 Contr	% 88 0 74 ols	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Tension Member LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Splice Forces	(kip) -112.21 0.00 -4.23 Force (kip) 97.59 0.00 4.24 Force (kip) 84.30	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 0.9D + 1.6W 60 1.2D + 1.6W 90 Load Case	9.64 0.000 20.64 Fy (ksi)	X 100 0 50 Fu (ksi) 0 Capa (kip 0.	Y 100 0 50 ph 65 1 0 65 city)	Z 0 100 0 0 0 50 0 50 0 198.45 0.00 34.71	78.2 0.0 207.8 Num Bolts 0 0 1	(ksi) 50.0 0.0 44.0 Num Holes 0 1 Num Bolts	(kip) 126.94 0.00 5.70 SheaphiR (kip) 0.0	0 0 1 ar nv)) 00 00 43	Holes 0 0 1 Bear phiRn (kip) 0.00 0.00	0.00 0.00 12.43 Use %	0.00 0.00 14.63 Contr	% 88 0 74 ols	Member X
LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Tension Member LEG PX - 4" DIA PIPE HORIZ DIAG SAE - 3X3X0.1875 Max Splice Forces Top Tension	(kip) -112.21 0.00 -4.23 Force (kip) 97.59 0.00 4.24 Force (kip) 84.30 100.66	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 0.9D + 1.6W 90 Load Case 0.9D + 1.6W 60	9.64 0.000 20.64 Fy (ksi)	X 100 0 50 Fu (ksi) 0 Capa (kip 0.	y 100 0 50 ph 10 65 1 0 65 city)	Z 0 100 0 50 hit Pn (kip) 198.45 0.00 34.71	78.2 0.0 207.8 Num Bolts 0 0 1	(ksi) 50.0 0.0 44.0 Num Holes 0 1 Num Bolts	(kip) 126.94 0.00 5.70 SheaphiR (kip) 0.0	0 0 1 ar nv) 00 00 43	Holes 0 0 1 Bear phiRn (kip) 0.00 0.00	0.00 0.00 12.43 Use %	0.00 0.00 14.63 Contr	% 88 0 74 ols	Member X

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



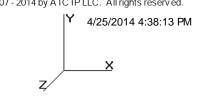
Section: 3 3		Bot Elev (ft): 40	.00		Hei	ght (f	t): 20.	000						
								_	phi			Shear			
	Force		Len	Bra	acing	_		F'y	Pn	Num		phiRnv	phiRn	Use	
Max Compression Member	(kip)	Load Case	(ft)	X	Υ	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
_EG PX - 4" DIA PIPE	-96.25	1.2D + 1.6W	9.64	100	100	100	78.2	50.0	126.94	. 0	0	0.00	0.00	75	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 3X3X0.1875	-4.03	1.2D + 1.6W 90	18.89	50	50	50	190.3	44.0	6.80	1	1	12.43	14.63	59	Member Z
	Force		Fy	Fu	ph	it Pn	Num	Num	She: phiR		Bear phiRn	Use			
Max Tension Member	(kip)	Load Case	(ksi)	(ksi	i)	(kip)	Bolts	Holes	(kip)	(kip)	%	Cont	rols	
LEG PX - 4" DIA PIPE	83.36	1.2D + 1.6W 60	5	0 (65 1	198.45	0	0	0.	.00	0.00	42	Memb	er	
HORIZ	0.00			0	0	0.00	0	0	0.	.00	0.00	0			
DIAG SAE - 3X3X0.1875	4.03	1.2D + 1.6W 90	5	0 (65	34.71	1	1	12.	.43	8.77	45	Bolt B	ear	
May Splice Forces	Force			Capa	-		lse	Num							
Max Splice Forces	(kip)	Load Case		(kip	•		%	Bolts	Bolt T	уре					
Top Tension		0.9D + 1.6W 60		-	.00		0	0							
Top Compression		1.2D + 1.6W		-	.00		0								
Bot Tension		0.9D + 1.6W 60		166.		;	51	4	7/8 A3	25					
Bot Compression	100.66	1.2D + 1.6W		0.	.00		0								
Section: 4 4		Bot Elev (ft): 60	.00		Hei	ght (f	t): 20.	000						
	F			D	!	O/		E'v	phi	Missee	Niver	Shear			
	Force	1 1 0	Len		acing	_	1/1 /D	F'y	Pn	Num		phiRnv	-		0 1 1 -
Max Compression Member	(kip)	Load Case	(ft)	Х	Υ	Z	KL/R	(ksi)	(kip)	Boits	Holes	(kip)	(kip)	%	Controls
LEG PX - 3" DIA PIPE		1.2D + 1.6W	6.43		100			50.0	97.22	-	0	0.00	0.00		Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2.5X2.5X0.1875	-3.03	1.2D + 1.6W 90	15.75	50	50	50	191.0	36.0	5.59) 1	1	7.95	10.44	54	Member Z
				_					She		Bear				
Max Tension Member	Force		Fy	Fu		it Pn		Num	phiR		phiRn	Use	Cont	role	
	(kip)	Load Case	(KSI)	(ksi	1)	(kip)	Bolts	Holes	(kip)	(kip)	%	Oont	013	
LEG PX - 3" DIA PIPE	70.86	0.9D + 1.6W 60				135.90		0		.00	0.00		Memb	er	
HORIZ	0.00			0	0	0.00	_	0		.00	0.00				
DIAG SAE - 2.5X2.5X0.1875	3.08	1.2D + 1.6W 90	3	6 !	58	25.60	1	1	7.	.95	6.20	49	Bolt B	ear	
Max Splice Forces	Force	1 1 0		Capa	-		lse	Num	D - 14 =						
	(kip)	Load Case		(kip	•		%	Bolts	Bolt T	уре					
Top Tension		0.9D + 1.6W 60		-	.00		0	0							
Top Compression		1.2D + 1.6W		-	.00		0								
Bot Tension									=10 * *	~=					
Bot Compression	70.70	0.9D + 1.6W 60 1.2D + 1.6W		166.	.24 .00	4	13 0	4	7/8 A3	25					

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



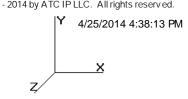
		Bot Elev (ft): 80	.00		Hei	ght (f	t): 20.	000						
	_			_				-	phi			Shear			
	Force		Len		cin	_		F'y	Pn	Num		phiRnv	•		
Max Compression Member	(kip)	Load Case	(ft)	X	Υ	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG PX - 3" DIA PIPE	-65.87	1.2D + 1.6W	6.43	100	100	100	67.7	50.0	97.25	0	0	0.00	0.00	67	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2.5X2.5X0.1875	-2.91	1.2D + 1.6W 90	13.82	50	50	50	167.5	36.0	7.26	1	1	7.95	10.44	40	Member Z
	Force		Fy	Fu	nh	it Pn	Num	Num	Shea phiR		Bear phiRn	Use			
Max Tension Member	(kip)	Load Case) (ksi				Holes	(kip		(kip)	%	Conti	ols	
LEG PX - 3" DIA PIPE	58.45	0.9D + 1.6W 60	5	0 6	65 1	135.90	0	0	0.	00	0.00	43	Membe	er	
HORIZ	0.00			0	0	0.00	0	0	0.	00	0.00	0			
DIAG SAE - 2.5X2.5X0.1875	2.90	1.2D + 1.6W 90	3	6 5	58	25.60	1	1	7.	95	6.20	46	Bolt Be	ear	
	Force			Capa	city	ι	se	Num							
Max Splice Forces	(kip)	Load Case		(kip)		%	Bolts	Bolt T	уре					
Top Tension	45.25	0.9D + 1.6W 60		0.	.00		0	0							
Top Compression		1.2D + 1.6W			.00		0								
Bot Tension	58.36	0.9D + 1.6W 60)	166.	24	;	35	4	7/8 A3	25					
Bot Compression	69.11	1.2D + 1.6W		0.	.00		0								
Section: 6 6		Bot Elev (ft): 10	0.0		Hei	ght (f	t): 13.	670						
									phi			Shear	Po or		
	_		_	_					•						
	Force		Len		cin	_		F'y	Pn	Num		phiRnv	phiRn		
Max Compression Member	Force (kip)		Len (ft)	Bra X	cin Y	g % Z	KL/R	F'y (ksi)	Pn		Num Holes	phiRnv		Use %	Controls
Max Compression Member LEG PX - 2-1/2" DIA PIPE	(kip)			X		Z		(ksi)	Pn	Bolts		phiRnv	phiRn	%	Controls Member X
·	(kip) -50.74	Load Case	(ft)	X 100	Υ	Z) 100		(ksi) 50.0	Pn (kip)	Bolts 0	Holes	phiRnv (kip)	phiRn (kip)	% 86	_
LEG PX - 2-1/2" DIA PIPE	(kip) -50.74 -0.88	Load Case 1.2D + 1.6W	(ft) 6.66 9.110	X 100	100	Z) 100) 100	86.5	(ksi) 50.0 36.0	Pn (kip) 58.59	Bolts 0 1	Holes 0	phiRnv (kip) 0.00	phiRn (kip) 0.00	% 86 12	Member X
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875	-50.74 -0.88 -2.13	1.2D + 1.6W 1.2D + 1.6W	6.66 9.110 12.17	X 100 100 50	100 100 50	Z) 100) 100) 50	86.5 183.4 185.4	50.0 36.0 36.0	Pn (kip) 58.59 7.32 4.70 Shea	Bolts 0 1 1	Holes 0 1 1 Bear	phiRnv (kip) 0.00 7.95 7.95	phiRn (kip) 0.00 10.44	% 86 12	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875	(kip) -50.74 -0.88	1.2D + 1.6W 1.2D + 1.6W	6.66 9.110 12.17	X 100 100	100 100 50	Z) 100) 100) 50 hit Pn	86.5 183.4 185.4 Num	(ksi) 50.0 36.0	Pn (kip) 58.59 7.32 4.70	Bolts 0 1 1 ar	Holes 0 1 1	phiRnv (kip) 0.00 7.95	phiRn (kip) 0.00 10.44	% 86 12 45	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875	(kip) -50.74 -0.88 -2.13 Force (kip)	Load Case 1.2D + 1.6W 1.2D + 1.6W 1.2D + 1.6W 90	6.66 9.110 12.17 Fy (ksi	X 100 100 50 Fu (ksi	100 100 50 ph	Z) 100) 100) 50 hit Pn	86.5 183.4 185.4 Num	50.0 36.0 36.0 Num	Pn (kip) 58.59 7.32 4.70 Shea phiR (kip	Bolts 0 1 1 ar	0 1 1 Bear phiRn	phiRnv (kip) 0.00 7.95 7.95 Use %	0.00 10.44 10.44	% 86 12 45	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Tension Member	(kip) -50.74 -0.88 -2.13 Force (kip) 44.85	Load Case 1.2D + 1.6W 1.2D + 1.6W 1.2D + 1.6W 90 Load Case	6.66 9.110 12.17 Fy (ksi)	X 100 100 50 Fu) (ksi	100 100 50 ph	Z 0 100 0 100 0 50 hit Pn (kip)	86.5 183.4 185.4 Num Bolts	50.0 36.0 36.0 Num Holes	9n (kip) 58.59 7.32 4.70 Shea phiR (kip	Bolts 0 1 1 1 ar nv)	Holes 0 1 1 Bear phiRn (kip)	phiRnv (kip) 0.00 7.95 7.95 Use %	phiRn (kip) 0.00 10.44 10.44	% 86 12 45 rols	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Tension Member LEG PX - 2-1/2" DIA PIPE	(kip) -50.74 -0.88 -2.13 Force (kip) 44.85 0.80	Load Case 1.2D + 1.6W 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 1.2D + 1.6W 60	6.66 9.110 12.17 Fy (ksi)	X 100 100 50 Fu) (ksi	Y 100 100 50 ph	Z) 100) 100) 50 iit Pn (kip)	86.5 183.4 185.4 Num Bolts	50.0 36.0 36.0 Num Holes	90 (kip) 58.59 7.32 4.70 SheaphiR (kip) 0.7	0 1 1 ar nv)	Holes 0 1 1 Bear phiRn (kip) 0.00	phiRnv (kip) 0.00 7.95 7.95 Use %	9hiRn (kip) 0.00 10.44 10.44 Contr	% 86 12 45 ols	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Tension Member LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875	(kip) -50.74 -0.88 -2.13 Force (kip) 44.85 0.80 2.14 Force	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 1.2D + 1.6W 60 1.2D + 1.6W 60 1.2D + 1.6W	(ft) 6.66 9.110 12.17 Fy (ksi) 5 3	X 100 100 50 Fu) (ksi	Y 100 100 50 ph i) 65 1 58	Z) 100) 100) 50 hit Pn (kip) 101.25 31.74 19.50	86.5 183.4 185.4 Num Bolts 0 1 1	(ksi) 50.0 36.0 36.0 Num Holes 0 1 1	98.59 7.32 4.70 Shea phiR (kip	0 1 1 1 ar nv) 00 95	Holes 0 1 1 Bear phiRn (kip) 0.00 6.20	phiRnv (kip) 0.00 7.95 7.95 Use %	phiRn (kip) 0.00 10.44 10.44 Conti	% 86 12 45 ols	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Tension Member LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875	(kip) -50.74 -0.88 -2.13 Force (kip) 44.85 0.80 2.14	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 1.2D + 1.6W 60 1.2D + 1.6W 60	(ft) 6.66 9.110 12.17 Fy (ksi) 5 3	X 100 100 50 Fu) (ksi 0 6	Y 1000 1000 500 ph 558 558 city	Z) 100) 100) 50 hit Pn (kip) 101.25 31.74 19.50	86.5 183.4 185.4 Num Bolts 0 1	0 1 1	90 (kip) 58.59 7.32 4.70 SheaphiR (kip) 0.7	0 1 1 1 ar nv) 00 95	Holes 0 1 1 Bear phiRn (kip) 0.00 6.20	phiRnv (kip) 0.00 7.95 7.95 Use %	phiRn (kip) 0.00 10.44 10.44 Conti	% 86 12 45 ols	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Tension Member LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Splice Forces Top Tension	(kip) -50.74 -0.88 -2.13 Force (kip) 44.85 0.80 2.14 Force (kip)	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 1.2D + 1.6W 60 1.2D + 1.6W 60 1.2D + 1.6W	(ft) 6.66 9.110 12.17 Fy (ksi) 5 3	X 100 100 50 Fu) (ksi 0 (6 6 ! Capa (kip	Y 1000 1000 500 ph 558 558 city	Z) 100) 100) 50 hit Pn (kip) 101.25 31.74 19.50	86.5 183.4 185.4 Num Bolts 0 1 1	(ksi) 50.0 36.0 36.0 Num Holes 0 1 1	98.59 7.32 4.70 Shea phiR (kip	0 1 1 1 ar nv) 00 95	Holes 0 1 1 Bear phiRn (kip) 0.00 6.20	phiRnv (kip) 0.00 7.95 7.95 Use %	phiRn (kip) 0.00 10.44 10.44 Conti	% 86 12 45 ols	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Tension Member LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Splice Forces	(kip) -50.74 -0.88 -2.13 Force (kip) 44.85 0.80 2.14 Force (kip) 37.34	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 1.2D + 1.6W 60 1.2D + 1.6W 60 1.2D + 1.6W	(ft) 6.66 9.110 12.17 Fy (ksi) 5 3	X 100 100 50 Fu (ksi 0 6 4 Capa (kip	Y 100 100 50 ph 65 1 58 58 city	Z) 100) 100) 50 hit Pn (kip) 101.25 31.74 19.50	86.5 183.4 185.4 Num Bolts 0 1 1	(ksi) 50.0 36.0 36.0 Num Holes 0 1 1 Num Bolts	Pn (kip) 58.59 7.32 4.70 Shear phiR (kip) 7.	0 1 1 1 ar nv) 00 95 95	Holes 0 1 1 Bear phiRn (kip) 0.00 6.20	phiRnv (kip) 0.00 7.95 7.95 Use %	phiRn (kip) 0.00 10.44 10.44 Conti	% 86 12 45 ols	Member X Member Z
LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Tension Member LEG PX - 2-1/2" DIA PIPE HORIZ SAE - 3X3X0.1875 DIAG SAE - 2X2X0.1875 Max Splice Forces Top Tension	(kip) -50.74 -0.88 -2.13 Force (kip) 44.85 0.80 2.14 Force (kip) 37.34 44.03 45.25	Load Case 1.2D + 1.6W 1.2D + 1.6W 90 Load Case 1.2D + 1.6W 60 1.2D + 1.6W 60 1.2D + 1.6W Load Case 0.9D + 1.6W 60 1.2D + 1.6W 60	(ft) 6.66 9.110 12.17 Fy (ksi) 5 3 3	X 100 100 50 Fu) (ksi 0 6 6 (kip 0. 120.	Y 100 100 50 ph i) 65 1 58 58 city)	Z 0 100 0 100 0 50 hit Pn (kip) 101.25 31.74 19.50	86.5 183.4 185.4 Num Bolts 0 1 1 1	(ksi) 50.0 36.0 36.0 Num Holes 0 1 1 Num Bolts	98.59 7.32 4.70 Shea phiR (kip	0 1 1 1 ar nv) 00 95 95	Holes 0 1 1 Bear phiRn (kip) 0.00 6.20	phiRnv (kip) 0.00 7.95 7.95 Use %	phiRn (kip) 0.00 10.44 10.44 Conti	% 86 12 45 ols	Member X Member Z

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



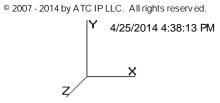
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		·	-				•	•	phi			Shear			
	Force		Len	Bra	cin	g %		F'y	Pn	Num		phiRnv	phiRn	Use	
Max Compression Member	(kip)	Load Case	(ft)	X	Υ	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG PX - 2-1/2" DIA PIPE	-41.47	1.2D + 1.6W	5.97	100	100	100	77.5	50.0	65.27	0	0	0.00	0.00	63	Member X
HORIZ	0.00		0.000	0	(0 0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 2X2X0.1875	-2.31	1.2D + 1.6W	10.61	50	50	50	161.7	36.0	6.18	1	1	7.95	10.44	37	Member Z
	Force		Fy	Fu	ph	nit Pn	Num	Num	Shea phiR		Bear phiRn	Use			
Max Tension Member	(kip)	Load Case) (ksi		(kip)		Holes	(kip)	(kip)	%	Cont	rols	
LEG PX - 2-1/2" DIA PIPE	34.89	1.2D + 1.6W 60	5	0 6	65 1	101.25	0	0	0.	00	0.00	34	Membe	er	
HORIZ	0.00			0	0	0.00	0	0	0.	00	0.00	0			
DIAG SAE - 2X2X0.1875	2.06	1.2D + 1.6W 60	3	6 5	58	19.50	1	1	7.	95	6.20	33	Bolt Be	ear	
Mary Outling Farrage	Force			Capa	city		se	Num							
Max Splice Forces	(kip)	Load Case		(kip		•	%	Bolts	Bolt T	уре					
Top Tension		0.9D + 1.6W 60			00		0	0							
Top Compression		1.2D + 1.6W			00		0								
Bot Tension		0.9D + 1.6W 60		120.	-	3	31	4	3/4 A3	25					
Bot Compression	44.03	1.2D + 1.6W		0.	00		0								
Section: 8 7		Bot Elev (ft): 12	0.0		Hei	ght (f	t): 20.	000						
	-		Lan	D. a		~ 0/		F'y	phi Pn	Nicona	Mirro	Shear		Haa	
	Force	Lood Coop	Len	Х		g %	KI (D			Num		phiRnv	-		Cantrala
Max Compression Member	` ',	Load Case	(ft)		Y			(ksi)	(kip)		Holes		(kip)	%	Controls
LEG PX - 2-1/2" DIA PIPE		1.2D + 1.6W		100	100				76.02	_	0	0.00	0.00	_	Member X
HORIZ SAE - 2X2X0.125		1.2D + 1.6W 60	6.420		100		193.6		2.89		1	7.95	6.96	_	Member Z
DIAG SAE - 1.5X1.5X0.125	-1.88	1.2D + 1.6W 90	9.459	50	50	50	191.7	36.0	2.21	1	1	7.95	6.96	84	Member Z
	_		_	_					She		Bear				
Max Tension Member	Force		Fy	Fu	•	it Pn		Num	phiR		phiRn	Use	Cont	role	
	(kip)	Load Case	(KSI) (ksi)	(KIP)	Boits	Holes	(kip)	(kip)	%		0.0	
LEG PX - 2-1/2" DIA PIPE		1.2D + 1.6W 60	-			101.25		0		00	0.00		Membe		
HORIZ SAE - 2X2X0.125		1.2D + 1.6W 60	_	-	58	13.11	1	1		95	4.13		Bolt Be		
DIAG SAE - 1.5X1.5X0.125	4 07	1.2D + 1.6W 90	3	6 5	58	9.20	1	1	7.	95	4.13	47	Bolt Be	ear	
	1.97	1.2D + 1.0W 30													
	Force			Capa	-		se	Num	=						
Max Splice Forces	Force (kip)	Load Case		(kip) _		%	Bolts	Bolt T	ype					
Max Splice Forces Top Tension	Force (kip) 20.48	Load Case 0.9D + 1.6W 60		(kip 0.	00		% 0		Bolt T	ype					
Max Splice Forces Top Tension Top Compression	Force (kip) 20.48 25.03	Load Case 0.9D + 1.6W 60 1.2D + 1.6W		(kip 0. 0.) 00 00	•	% 0 0	Bolts 0							
Max Splice Forces Top Tension	Force (kip) 20.48 25.03 33.75	Load Case 0.9D + 1.6W 60		(kip 0. 0. 81.) 00 00	•	% 0	Bolts	Bolt T						

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II Exposure: B Topo: 1



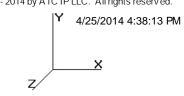
Section: 9 8		Bot Elev (ft): 14	0.0		Hei	ght (f	t): 20.	000						
								_	phi			Shear			
	Force		Len		acin	-		F'y	Pn			phiRnv	phiRn		
Max Compression Member	(kip)	Load Case	(ft)	X	Υ	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG PST - 2" DIA PIPE	-22.61	1.2D + 1.6W	3.85	100	100	100	58.7	50.0	37.43	0	0	0.00	0.00	60	Member X
HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG SAE - 1.5X1.5X0.125	-2.22	1.2D + 1.6W 90	7.486	50	50	50	151.7	36.0	3.53		1	7.95	6.96	62	Member 2
	Force		Fy	Fu	ph	it Pn	Num	Num	Shea phiR		Bear phiRn	Use			
Max Tension Member	(kip)	Load Case		(ks	i) .	(kip)	Bolts	Holes	(kip)	(kip)	%	Contr	rols	
LEG PST - 2" DIA PIPE	20.39	0.9D + 1.6W 60	5	0	65	48.15	0	0	0.	00	0.00	42	Membe	er	
HORIZ	0.00			0	0	0.00	0	0	0.	00	0.00	0			
DIAG SAE - 1.5X1.5X0.125	2.22	1.2D + 1.6W 90	3	6	58	9.20	1	1	7.	95	4.13	53	Bolt Be	ear	
May Culing Farana	Force			Capa	•		lse	Num							
Max Splice Forces	(kip)	Load Case		(kip)		%	Bolts	Bolt T	уре					
Top Tension		0.9D + 1.6W 60		_	.00		0	0							
Top Compression		1.2D + 1.6W		_	.00		0								
Bot Tension		0.9D + 1.6W 60			.36	2	25	4	5/8 A3	25					
Bot Compression	25.03	1.2D + 1.6W		0	.00		0								
Section: 10 9		Bot Elev (ft): 16	0.0		Hei	ght (f	t): 20.	000						
	Force		Len	Bra	acin	a %		F'y	phi Pn	Num	Num	Shear phiRnv		Use	
													•		
Max Compression Member	(kip)	Load Case	(ft)	Χ	Υ		KL/R	-	(kip)	Bolts	Holes	(kip)	(kip)	%	Control
· · · · · · · · · · · · · · · · · · ·	(kip)	Load Case 1.2D + 1.6W	(ft) 0.38			Z		(ksi)	(kip) 48.04			(kip)	(KIP) 0.00		_
LEG PST - 2" DIA PIPE	(kip) -6.85		0.38		100	Z) 100		(ksi) 50.0		. 0	Holes			14	Member >
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125	(kip) -6.85 -0.15	1.2D + 1.6W	0.38	100	100	Z) 100) 100	5.7	(ksi) 50.0 36.0	48.04	0	Holes 0	0.00	0.00	14 5	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125	-6.85 -0.15 -0.88	1.2D + 1.6W 1.2D + 1.6W 60	0.38 6.420 7.486	100 100 50	100 100 50	Z) 100) 100) 50	5.7 193.6 151.7	50.0 36.0 36.0	48.04 2.89 3.53 Shea	0 1 1	Holes 0 1 1 Bear	0.00 7.95 7.95	0.00 6.96	14 5	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125	(kip) -6.85 -0.15	1.2D + 1.6W 1.2D + 1.6W 60	0.38 6.420 7.486	100 100	100 100 50	Z) 100) 100) 50 it Pn	5.7 193.6 151.7 Num	(ksi) 50.0 36.0	48.04 2.89 3.53	0 1 1 1 ar	0 1 1	0.00 7.95	0.00 6.96	14 5 25	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member	-6.85 -0.15 -0.88	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case	0.38 6.420 7.486 Fy (ksi	100 100 50 Fu (ks	100 100 50	Z) 100) 100) 50 it Pn	5.7 193.6 151.7 Num Bolts	50.0 36.0 36.0 Num	48.04 2.89 3.53 Shea phiR (kip	0 1 1 1 ar	Holes 0 1 1 Bear phiRn	0.00 7.95 7.95 Use	0.00 6.96 6.96	14 5 25 rols	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member LEG PST - 2" DIA PIPE	(kip) -6.85 -0.15 -0.88 Force (kip) 4.01	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case	0.38 6.420 7.486 Fy (ksi	100 100 50 Fu (ks	100 100 50 ph i)	Z 0 100 0 100 0 50 it Pn (kip)	5.7 193.6 151.7 Num Bolts	50.0 36.0 36.0 Num Holes	48.04 2.89 3.53 Shea phiR (kip	0 1 1 1 ar nv	Holes 0 1 1 Bear phiRn (kip)	0.00 7.95 7.95 Use %	0.00 6.96 6.96 Contr	14 5 25 rols	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member	(kip) -6.85 -0.15 -0.88 Force (kip) 4.01 0.21	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case 0.9D + 1.6W 60	0.38 6.420 7.486 Fy (ksi)	100 100 50 Fu) (ks	100 100 50 ph i)	Z) 100) 100) 50 it Pn (kip) 48.15	5.7 193.6 151.7 Num Bolts 0 1	50.0 36.0 36.0 Num Holes	48.04 2.89 3.53 Shea phiR (kip	0 1 1 1 ar nv	Holes 0 1 1 Bear phiRn (kip) 0.00	0.00 7.95 7.95 Use %	0.00 6.96 6.96 Contr	14 5 25 rols er	Member X Member Z Member Z
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125	(kip) -6.85 -0.15 -0.88 Force (kip) 4.01 0.21 0.92 Force	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case 0.9D + 1.6W 60 1.2D + 1.6W 1.2D + 1.6W 90	0.38 6.420 7.486 Fy (ksi) 5	100 100 50 Fu) (ks 0 6 6	100 100 50 ph i) 65 58 58	Z) 100) 100) 50 it Pn (kip) 48.15 13.11 9.20	5.7 193.6 151.7 Num Bolts 0 1 1	50.0 36.0 36.0 Num Holes 0 1 1	48.04 2.89 3.53 She: phiR (kip 0. 7.	0 1 1 ar nv 0) 00 95	Holes 0 1 1 Bear phiRn (kip) 0.00 4.13	0.00 7.95 7.95 Use %	0.00 6.96 6.96 Contr	14 5 25 rols er	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Splice Forces	(kip) -6.85 -0.15 -0.88 Force (kip) 4.01 0.21 0.92 Force (kip)	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case 0.9D + 1.6W 60 1.2D + 1.6W	0.38 6.420 7.486 Fy (ksi) 5	100 100 50 Fu) (ks 0 6 6 Capa	100 100 50 ph i) 65 58 acity	Z) 100) 100) 50 it Pn (kip) 48.15 13.11 9.20	5.7 193.6 151.7 Num Bolts 0 1 1	0 1 Num Bolts	48.04 2.89 3.53 Shea phiR (kip	0 1 1 ar nv 0) 00 95	Holes 0 1 1 Bear phiRn (kip) 0.00 4.13	0.00 7.95 7.95 Use %	0.00 6.96 6.96 Contr	14 5 25 rols er	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Splice Forces Top Tension	(kip) -6.85 -0.15 -0.88 Force (kip) 4.01 0.21 0.92 Force (kip) 0.00	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case 0.9D + 1.6W 60 1.2D + 1.6W 1.2D + 1.6W 90 Load Case	0.38 6.420 7.486 Fy (ksi) 5	100 100 50 Fu) (ks 0 6 6 Capa (kip	100 100 50 ph i) 65 58 acity	Z) 100) 100) 50 it Pn (kip) 48.15 13.11 9.20	5.7 193.6 151.7 Num Bolts 0 1 1 1	50.0 36.0 36.0 Num Holes 0 1 1	48.04 2.89 3.53 She: phiR (kip 0. 7.	0 1 1 ar nv 0) 00 95	Holes 0 1 1 Bear phiRn (kip) 0.00 4.13	0.00 7.95 7.95 Use %	0.00 6.96 6.96 Contr	14 5 25 rols er	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Splice Forces Top Tension Top Compression	(kip) -6.85 -0.15 -0.88 Force (kip) 4.01 0.21 0.92 Force (kip) 0.00 0.33	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case 0.9D + 1.6W 60 1.2D + 1.6W 1.2D + 1.6W 90 Load Case	0.38 6.420 7.486 Fy (ksi) 5 3	100 100 50 Fu) (ks 0 6 6 (kip 0	100 100 50 ph i) 65 58 58 acity b)	Z) 100) 100) 50 it Pn (kip) 48.15 13.11 9.20	5.7 193.6 151.7 Num Bolts 0 1 1 1	0 1 Num Bolts 0	48.04 2.89 3.53 Shee phiR (kip 0. 7.	0 1 1 ar nv 9) 00 95 95	Holes 0 1 1 Bear phiRn (kip) 0.00 4.13	0.00 7.95 7.95 Use %	0.00 6.96 6.96 Contr	14 5 25 rols er	Member 2
LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Tension Member LEG PST - 2" DIA PIPE HORIZ SAE - 2X2X0.125 DIAG SAE - 1.5X1.5X0.125 Max Splice Forces Top Tension	(kip) -6.85 -0.15 -0.88 Force (kip) 4.01 0.21 0.92 Force (kip) 0.00 0.33 3.98	1.2D + 1.6W 1.2D + 1.6W 60 1.2D + 1.6W Load Case 0.9D + 1.6W 60 1.2D + 1.6W 1.2D + 1.6W 90 Load Case	0.38 6.420 7.486 Fy (ksi) 5 3	100 100 50 Fu) (ks 0 6 6 6 Capa (kip 0 81	100 100 50 ph i) 65 58 acity	Z) 100) 100) 50 it Pn (kip) 48.15 13.11 9.20	5.7 193.6 151.7 Num Bolts 0 1 1 1	0 1 Num Bolts	48.04 2.89 3.53 She: phiR (kip 0. 7.	0 1 1 ar nv 9) 00 95 95	Holes 0 1 1 Bear phiRn (kip) 0.00 4.13	0.00 7.95 7.95 Use %	0.00 6.96 6.96 Contr	14 5 25 rols er	Member X Member Z

Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II
Exposure: B
Topo: 1



Support Forces Summary

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.0D + 1.0W Service 90 deg	1b	-2.25	-19.55	-1.00	.,,
1.0D + 1.0W Service 90 deg	1a	-2.23 -2.81	30.91	1.32	
	1	-0.52	5.68	-0.32	
	•	-0.52	3.00	-0.52	
1.0D + 1.0W Service 60 deg	1b	-2.43	-22.96	-1.40	
_	1a	-1.86	19.91	0.56	
	1	-0.44	20.10	-1.89	
1.0D + 1.0W Service Normal	1b	-0.95	-9.85	-1.11	
1.0D + 1.0W Set vice Notifial	16 1a		-9.85	-1.11	
	1a 1	0.95			
	1	0.00	36.74	-3.72	
1.2D + 1.0Di + 1.0Wi 90 deg	1b	-3.59	-18.54	-1.64	
_	1a	-4.35	62.79	2.06	
	1	-0.76	22.13	-0.43	
1.2D + 1.0Di + 1.0Wi 60 deg	1b	-3.95	-24.61	-2.28	
1.2D + 1.0DI + 1.0WI 60 deg					
	1a	-2.87	45.35 45.65	0.89 -2.93	
	1	-0.66	45.65	-2.93	
1.2D + 1.0Di + 1.0Wi Normal	1b	-1.52	-2.02	-1.66	
	1a	1.52	-2.02	-1.66	
	1	0.00	70.42	-5.59	
0.9D + 1.6W 90 deg	1b	-9.78	-95.58	-4.50	
0.3D + 1.0W 30 deg	16 1a	-10.24	105.80	4.71	
	1	-2.03	5.11	-0.21	
	•	2.00	•	0.2.	
0.9D + 1.6W 60 deg	1b	-10.51	-109.19	-6.07	
	1a	-6.43	61.88	1.71	
	1	-1.74	62.64	-6.43	
0.9D + 1.6W Normal	1b	-4.71	-56.87	-4.88	
olog i mon norma.	1a	4.71	-56.87	-4.88	
	1	0.00	129.07	-13.73	
1.2D + 1.6W 90 deg	1b	-9.69	-93.98	-4.45	
	1a	-10.32	107.61	4.76	
	1	-2.03	6.82	-0.31	
1.2D + 1.6W 60 deg	1b	-10.42	-107.60	-6.02	
	1a	-6.52	63.64	1.76	
	1	-1.74	64.41	-6.52	
4.0D : 4.0W No rest of	415	4.00	FF 00	4.00	
1.2D + 1.6W Normal	1b	-4.63	-55.23	-4.83	
	1a	4.63	-55.23	-4.83	
	1	0.00	130.90	-13.83	

Max Uplift: 109.19 (kip) Moment: 2,233.07 (kip-ft) 1.2D + 1.6W Normal

 Max Down:
 130.90 (kip)
 Total Down:
 20.45 (kip)

 Max Shear:
 13.83 (kip)
 Total Shear:
 23.49 (kip)

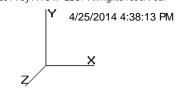
Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II
Exposure: B

Topo: 1

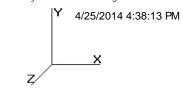


Site Number: 275375

Location: Levesque CT, CT

Code: ANSI/TIA-222 Rev G

Struct Class: II
Exposure: B
Topo: 1



Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	
Serviceability - 60.00 Wind 60 deg	40.38	0.0187	0.0352	0.0872	
	59.63	0.0372	0.0540	0.1016	
	60.38	0.0386	0.0549	0.1007	
	86.79	0.0773	0.0893	0.0898	
	100.38	0.1036	0.0982	0.1564	
	160.37	0.2787	0.1010	0.2804	
	175.77	0.3348	0.1057	0.2118	
	180.00	0.3499	0.1064	0.1939	
Serviceability - 60.00 Wind 90 deg	40.38	0.0190	0.0203	0.0825	
	59.63	0.0378	0.0306	0.0909	
	60.38	0.0391	0.0311	0.0897	
	86.79	0.0786	0.0476	0.0823	
	100.38	0.1050	0.0523	0.1415	
	160.37	0.2825	0.0427	0.2758	
	175.77	0.3391	0.0421	0.2164	
	180.00	0.3540	0.0420	0.1206	
Serviceability - 60.00 Wind Normal	40.38	0.0204	0.0320	0.0990	
	59.63	0.0404	0.0498	0.1278	
	60.38	0.0422	0.0508	0.1287	
	86.79	0.0841	0.0862	0.1162	
	100.38	0.1127	0.0941	0.1944	
	160.37	0.3017	0.0957	0.3004	
	175.77	0.3628	0.0949	0.2215	
	180.00	0.3803	0.0948	0.3451	
50.00 mph 60 deg with 0.75 in Radial Ice	40.38	0.0314	0.0577	0.1491	
	59.63	0.0617	0.0885	0.1715	
	60.38	0.0641	0.0901	0.1735	
	86.79	0.1278	0.1508	0.1473	
	100.38	0.1710	0.1687	0.2638	
	160.37	0.4541	0.1944	0.4408	
	175.77	0.5439	0.2089	0.3394	
	180.00	0.5682	0.2111	0.3110	
50.00 mph 90 deg with 0.75 in Radial Ice	40.38	0.0312	0.0321	0.1383	
	59.63	0.0618	0.0484	0.1529	
	60.38	0.0639	0.0492	0.1542	
	86.79	0.1280	0.0772	0.1348	
	100.38	0.1710	0.0859	0.2344	
	160.37	0.4549	0.0748	0.4294	
	175.77	0.5445	0.0745	0.3433	
	180.00	0.5683	0.0745	0.1946	
50.00 mph Normal with 0.75 in Radial Ice	40.38	0.0315	0.0503	0.1484	
	59.63	0.0631	0.0783	0.1968	
	60.38	0.0654	0.0798	0.1946	
	86.79	0.1318	0.1384	0.1818	
	100.38	0.1766	0.1529	0.3091	
	160.37	0.4699	0.1614	0.4491	
	175.77	0.5636	0.1611	0.3388	
	180.00	0.5906	0.1613	0.5322	

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	Code:	ANSI/TIA-222 Rev G			
	Struct Class:	II			
	Exposure:	В			×
	Topo :			Z /	
05 00 mmh 60 dag with No loo (Paduard DI)	40.38		0.1690	0.2410	
95.00 mph 60 deg with No Ice (Reduced DL)	59.63	0.0747		0.3418	
	60.38	0.1487 0.1541	0.2600 0.2648	0.4005 0.3984	
	86.79				
	100.38	0.3094	0.4446	0.3557	
		0.4145	0.4999	0.6204	
	160.37	1.1161	0.7051	1.1178	
	175.77	1.3406	0.8039	0.8488	
05 00 mm b 00 de m m/db Ne lee	180.00	1.4014	0.8189	0.7806	
95.00 mph 60 deg with No Ice	40.38	0.0747	0.1691	0.3422	
	59.63	0.1489	0.2601	0.4011	
	60.38	0.1543	0.2648	0.3989	
	86.79	0.3098	0.4447	0.3563	
	100.38	0.4150	0.5001	0.6216	
	160.37	1.1179	0.7057	1.1210	
	175.77	1.3429	0.8047	0.8505	
	180.00	1.4038	0.8198	0.7822	
95.00 mph 90 deg with No Ice (Reduced DL)	40.38	0.0757	0.0832	0.3322	
	59.63	0.1509	0.1258	0.3660	
	60.38	0.1558	0.1279	0.3617	
	86.79	0.3141	0.1978	0.3302	
	100.38	0.4201	0.2177	0.5681	
	160.37	1.1310	0.1912	1.1019	
	175.77	1.3577	0.1908	0.8664	
	180.00	1.4175	0.1907	0.4825	
95.00 mph 90 deg with No Ice	40.38	0.0757	0.0832	0.3325	
	59.63	0.1511	0.1258	0.3664	
	60.38	0.1560	0.1279	0.3621	
	86.79	0.3144	0.1977	0.3307	
	100.38	0.4206	0.2177	0.5688	
	160.37	1.1329	0.1911	1.1043	
	175.77	1.3600	0.1907	0.8682	
	180.00	1.4199	0.1905	0.4842	
95.00 mph Normal to Face with No Ice (Reduced DL)	40.38	0.0813	0.1318	0.4014	
	59.63	0.1613	0.2054	0.5211	
	60.38	0.1684	0.2092	0.5236	
	86.79	0.3358	0.3559	0.4659	
	100.38	0.4507	0.3906	0.7907	
	160.37	1.2080	0.4208	1.2097	
	175.77	1.4523	0.4218	0.8868	
	180.00	1.5229	0.4230	1.3821	
95.00 mph Normal to Face with No Ice	40.38	0.0813	0.1318	0.4018	
	59.63	0.1615	0.2054	0.5215	
	60.38	0.1686	0.2093	0.5241	
	86.79	0.3363	0.3559	0.4665	
	100.38	0.4513	0.3907	0.7917	
	160.37	1.2100	0.4210	1.2124	
	175.77	1.4548	0.4220	0.8886	
	180.00	1.5255	0.4231	1.3841	
	180.00	0.0000	0.0000	0.0000	

T-MOBILE NORTHEAST LLC

CT11477B CT477/GENERAL COMM. SST

1140 WOLCOTT ROAD WOLCOTT, CT 06716

(2C CONFIGURATION)

VICINITY MAP Terryville NNECTICU outhingto Waterbury unay Bark House

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



"CALL BEFORE YOU DIG"

WWW.CBYD.COM CALL 811, OR 1-800-922-4455 CALL THREE WORKING DAYS PRIOR TO DIGGING SAFETY PRECAUTIONS SHALL BE IMPLEMENTED BY CONTRACTOR(S) AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS.

ELECTRIC - RED GAS/OIL - YELLOW PROPOSED EXCAVATION - WHITE TEL/CATV - ORANGE RECLAIMED WATER

GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONSTRUCT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR FREDRS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE
- . THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE T-MOBILE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXPENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE
- . THE SCOPE OF WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELE WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE
- . THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS LINIESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE

- 8 THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- 9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS. TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND INSPECTIONS WHICH ARE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
- 11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC., DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE
- 12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON PROPERTY, PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS. DUST, OR SMUDGES OF ANY NATURE.
- 13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS, AS WELL AS THE LATEST EDITIONS OF ANY PERTINENT STATE SAFETY REGULATIONS.
- 14. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS, THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE T-MOBILE
- 15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC., ON THE JOB.
- 16 THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF WORK.

PROJECT SUMMARY

T-MOBILE NORTHEAST LLC SITE NUMBER: CT11477B 35 GRIFFIN ROAD SOUTH SITE NAME: CT477/GENERAL COMM. SST BLOOMFIELD, CT 06002 SITE ADDRESS: 1140 WOLCOTT ROAD (860)-692-7100 WOLCOTT, CT 06716 PROPERTY OWNER: AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY

CONCRETE PAD

STEEL PLATFORI

CONTACT

CONTACTS

PARCEL: CURRENT ZONING: JURISDICTION:

ATC SITE NUMBER:

LAT./LONG.: N 41.617525° / W -72.97457 CONSTRUCTION TYPE: -

USE GROUP:

EXISTING FORT WORTH

PROJECT DESCRIPTION

EXISTING MONOPOLE EXISTING CABINET(S) FXISTING LATTICE TOWER ☐ FXISTING RBS 2106 □ INDOOR ☐ EXISTING TRANSMISSION TOWER ☐ EXISTING RBS 3106 EXISTING T EXISTING WATER TANK PROPOSED RBS 3106 ☐ EXISTING T EXISTING BUILDING ☐ SITE SUPPORT KIT SITE SUPPORT CABINET Z EXISTING PPC ☐ EXISTING FLAGPOLE

T-MOBILE NORTHEAST LLC PROPOSES THE MODIFICATION OF AN UNMANNED WIRELESS BROADBAND FACILITY. REPLACEMENT OF EXISTING PANEL ANTENNAS & TMA'S WITH PROPOSED AIR21 PANEL ANTENNAS AND ASSOCIATED CABLING. REUSE EXISTING CABINET WITHIN EXISTING T-MOBILE LEASE AREA.

SHEET INDEX DESCRIPTION

REVISION

1033 WATERVLIET SHAKER ROAD

WOBURN, MA 01801

TARA RUSSO

AJ DESANTIS

518-690-0790

ARCHITECT/ENGINEER: INFINIGY ENGINEERING

717-695-2942

	220111111111	
T-1	TITLE SHEET	0
C-1	SITE PLAN	0
C-2	COMPOUND PLAN & ELEVATION	0
C-3	ANTENNA DETAIL & RF SCHEDULE	0
S-1	EQUIPMENT SPECIFICATIONS	0
E-1	GROUNDING AND POWER DIAGRAMS	0
E-2	COAX/FIBER PLUMBING DIAGRAM	0
N-1	GENERAL AND ELECTRICAL NOTES	0
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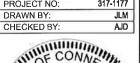
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35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 08002

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	SUBMITTALS	
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		DATE APP'S





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SITE NAME CT11477B

CT477/GENERAL COMM. SST

1140 WOLCOTT ROAD WOLCOTT, CT 06716

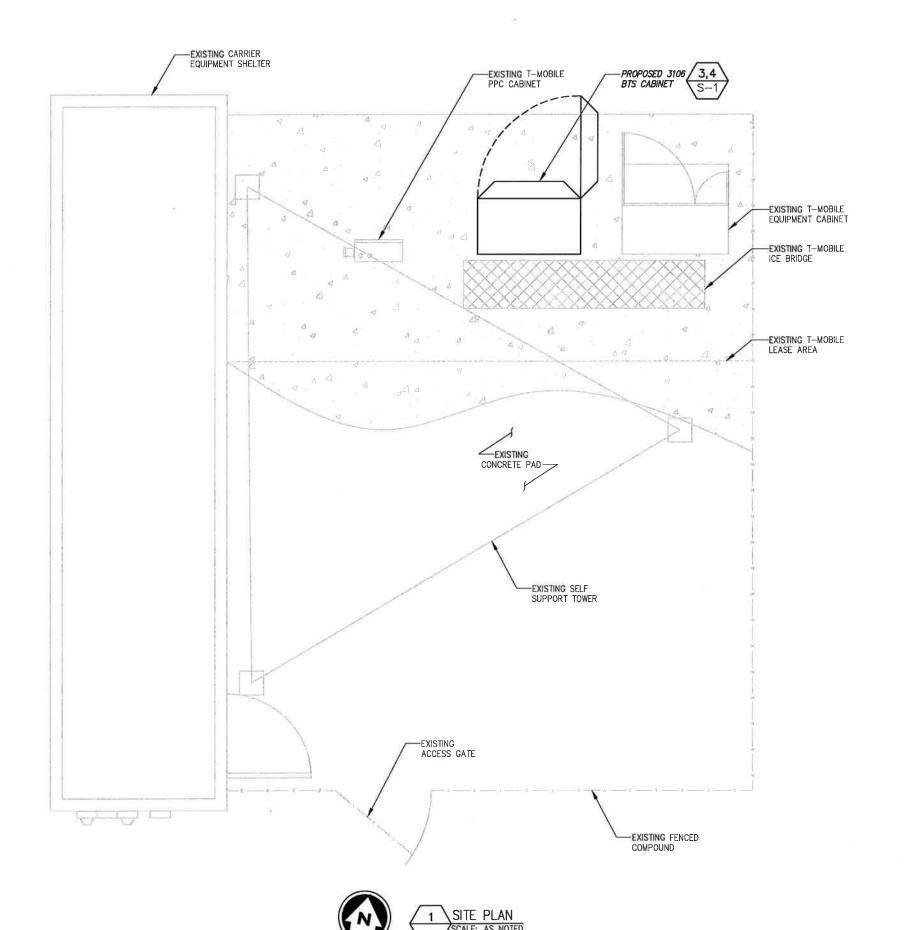
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TITLE SHEET

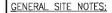
SHEET NUMBER

T-1

SHEET 1 OF 8 SHEETS



CALLED NORTH



- A COMPLETE BOUNDARY SURVEY OF THE HOST PARCEL HAS NOT BEEN PERFORMED BY INFINIGY ENGINEERING. BOUNDARY INFORMATION WAS OBTAINED FROM INFORMATION PROVIDED BY OTHERS. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- 2. BASEMAPPING INFORMATION BASED ON PROVIDED INFORMATION.
- CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.
- THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.
- 5. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.
- NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS SHOWN.
- THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
- UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
- ALL OBSOLETE OR UNUSED FACILITIES SHALL BE REMOVED WITHIN 12 MONTHS OF CESSATION OF OPERATIONS.

SITE LEGEND SITE PROPERTY LINE STREET OR ROAD DEPT. DATE APP'D REVISIONS

4/11/14

RFE MAN.
ZONING
OPS

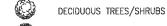
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CHECKED BY:

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 BOARD	ON	BOARD	FENCE	

EVERGREEN TREES/SHRUBS





CHAIN LINK FENCE

₩ UTILITY POLE

(E) EXISTING

(N) NEW

(P) PROPOSED

(F) FUTURE

PROP. GSM ANTENNA

PROP. UMTS ANTENNA

EX. GSM ANTENNA

EX. UMTS ANTENNA

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T · · Mobile ·

MOBILE NONTHEAST LU 35 GREFFIN ROAD SOUTH BLOOMFELD, CT 08002

Design. Bulld. Deliver.

INFINIGY8

SUBMITTALS

DESCRIPTION

REVIEW

FOR PERMIT

317-1177

AJD

NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

> SITE NAME CT11477B

CT477/GENERAL COMM. SST

1140 WOLCOTT ROAD WOLCOTT, CT 06716

SHEET TITLE

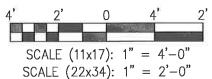
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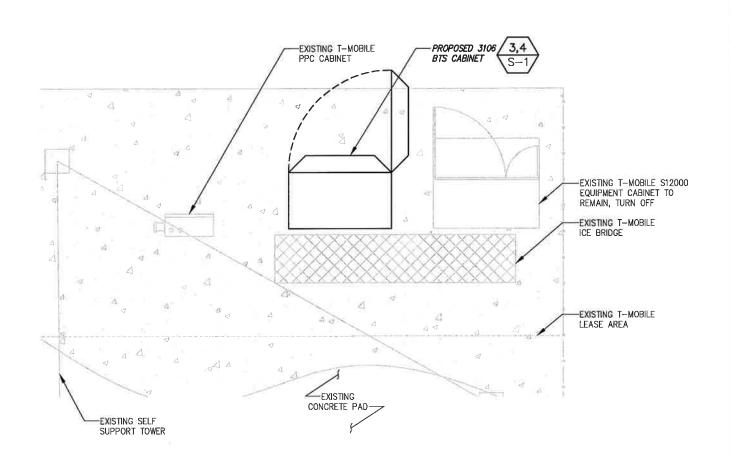
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C-1

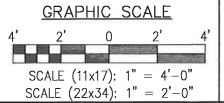
SHEET 2 OF 8 SHEETS



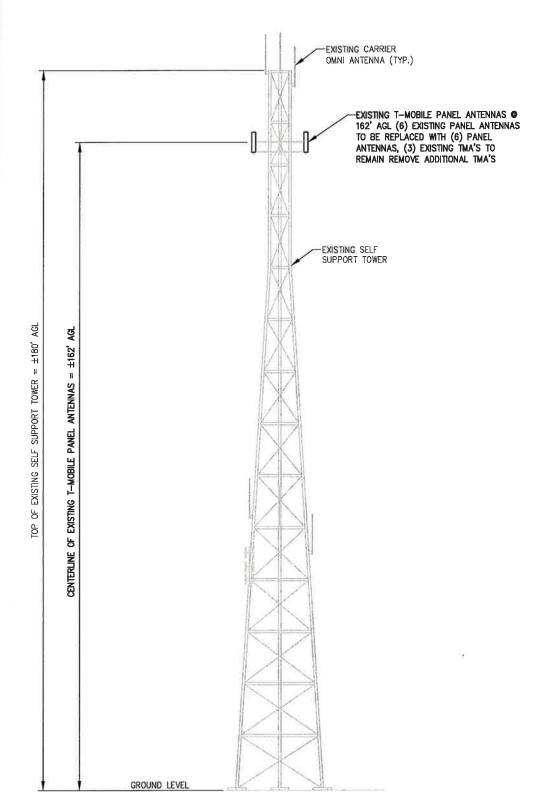








NOTE:
INFINIGY ENGINEERING HAS NOT EVALUATED THE
TOWER OR LOADING FOR THIS SITE, AND ASSUMES
NO RESPONSIBILITY FOR ITS STRUCTURAL
INTEGRITY REGARDING ITS EXISTING OR PROPOSED
LOADING. FINAL INSTALLATION TO COMPLY WITH
RESULTS OF PASSING STRUCTURAL ANALYSIS.



T-MODILE HORTHEAST LLC
35 GRITH RNO SOUTH
BLOWFELD, CT 00002

INFINIGY & Build.
1033 WITEVALET SHAKER ROAD
ALBANY, WY 12205
PARC. ((SI) 68-60-390
FARC. ((SI) 68-0793

DATE	REVISION	
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PROJECT NO:	317-1177
DRAWN BY:	JLM
CHECKED BY:	AJD



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> SITE NAME CT11477B

CT477/GENERAL COMM. SST

1140 WOLCOTT ROAD WOLCOTT, CT 06716

SHEET TITLE

COMPOUND PLAN & ELEVATION

SHEET NUMBER

C-2

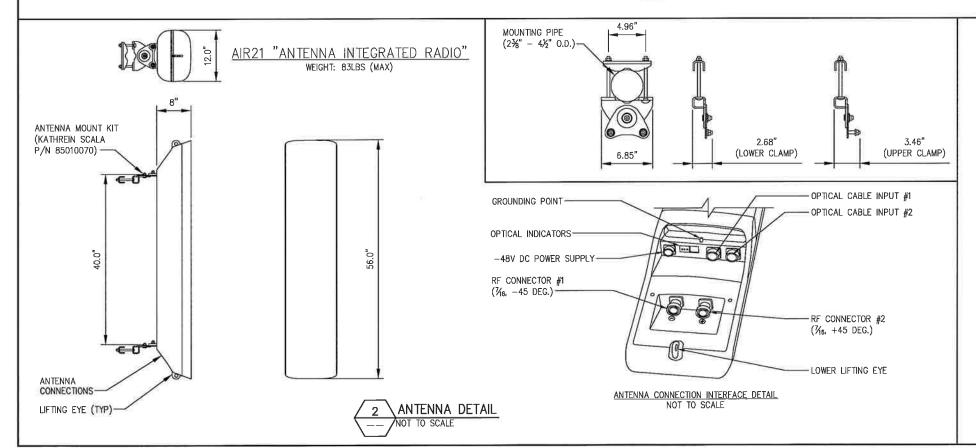
SHEET 3 OF 8 SHEETS



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		_								RF S	SYSTEM SCH	IEDULE	(2C C	ONFIG	JRATIO	N)														
SECT	OR TE	ECHNOLOGY	ANTENNA PORT	BAND	ANTENNA MODEL #	VENDOR	AZIMUTH	M-TILT	E-TILT	ANTENNA CENTERLINE	TMA MODEL #	VENDOR	CABLE LENGTH	CABLE DIAMETER	CABLE TYPE	CABLE MODEL #	VENDOR	CABLE TAGGING	COLOR CODING	JUMPER TYPE	JUMPER TAGGING	COLOR CODING								
			RF #1	5.45							KRY 112 144/1	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS A1	В	COAX	UMTS AWS A1	В								
	ا	JMTS AWS	RF #2	B4P							KRT 112 144/1	NYA	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS A2	В	COAX	UMTS AWS A2	В								
		LMU	LMU #1	_	AID01	ERICSSON	30°	0.	4.	162'-0"	_	-	EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU A1	=:	COAX	LMU A1									
A		LMU	LMU #2	_	AIR21	EKIC220IN	30	"	4	162 -0	_	_	EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU A2	#:	COAX	LMU A2	40								
		GSM	OPTICAL #1	B2A																FIBER	GSM 1900 A1	R								
		UMTS	OPTICAL #2	BZA							_		180'±	-	HYBRID	MASTERLINE EXTREME HYBRID (9x18)	ERICSSON	FIBER 1	0	FIBER	UMTS 1900 A2	G								
	LTE AWS	LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	30°	0,	4'	162'-0"	9) =								FIBER	LTE FIBER 1	Y									
		ILITE ANG	RF #1	B4P							KRY 112 144/1	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS B1	BB	COAX	UMTS AWS B1	B8								
		JMTS AWS	RF #2	B4P						162'-0"	NN 112 14471	*/	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS B2	BB	COAX	UMTS AWS B2	BB								
		LMU	LMU #1			ERICSSON	150°	0,	4.				EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU B1	3	COAX	LMU B1									
В		LMO	LMU #2	_	AIR21	EKICSSON	130	"	7	102 -0	Tre .	#4\	EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU B2	52	COAX	LMU B2	=:								
		GSM	OPTICAL #1	B2A				1									-		н					HYBRID GSM 1900 B1						RR
		UMTS	OPTICAL #2	BZA							-	_	(ANTE	NNA CONN	iected via	SINGLE SHARED MLE HY	BRID GEN2	CABLE. SEE SECTO	R "A")	HYBRID	UMTS 1900 B2	GG								
	L	LTE AWS	OPTICAL #1	В4А	AIR21	ERICSSON	150	0,	4*	162'-0"	40	==								HYBRID	LTE FIBER 2	W								
	-	JMTS AWS	RF #1	B4P							KRY 112 144/1	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS C1	BBB	COAX	UMTS AWS C1	888								
	U	DMIS AWS	RF #2	D4P							MM 112 1777	197	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS C2	BBB	COAX	UMTS AWS C2	888								
		LMU	LMU #1		AIR21	ERICSSON	270*	0,	4.	162'-0"	φ.	-	EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU C1	#8	COAX	LMU C1	20								
С		LMO	LMU #2	=	AINZI	LNICSSON	2/0	"		102 -0		32	EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU C2	=	COAX	LMU C2	=7								
		GSM	OPTICAL #1	B2A																HYBRID	GSM 1900 C1	RRR								
		UMTS	OPTICAL #2	OZA							75%	==	(ANTE	NNA CONN	iected via	SINGLE SHARED MLE HY	BRID GEN2 (CABLE. SEE SECTO	R "A")	HYBRID	UMTS 1900 C2	GGG								
	L	LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	270°	0.	4*	162'-0"	#V	=								HYBRID	LTE FIBER 3	YYY								
																				-	VEV									



	KEY
EXISTING PROPOSED FIBER CONNECTION	R - RED - GSM G - GREEN - UMTS 1900 B - BLUE - UMTS AWS Y - YELLOW - LTE O - ORANGE - FIBER CABLE





METALLIC TAG NOTES:

- 1. TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END
 OF EVERY CABLE LONGER THAN (3) THREE FEET.
 2. CABLES LESS THAN (3) THREE FEET WILL HAVE TWO
 METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.
 3. TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES
 APPROPRIATE FOR CABLE DIAMETER.
 4. STAINLADDIZED METALLIC TAG MITS WILL BE ASSEMBLED.
- 4. STANDARDIZED METALLIC TAG KITS WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL





T-MOBILE HORTHEAST LLC 35 GREFIN ROAD SOUTH BLOOMFIELD, CT 08002

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PROJECT NO:	317-1177
DRAWN BY:	JLM
CHECKED BY:	AJD



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TAG #1

TAG #2

TAG #1

TAG #2

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SITE NAME CT11477B

CT477/GENERAL COMM. SST

1140 WOLCOTT ROAD WOLCOTT, CT 06716

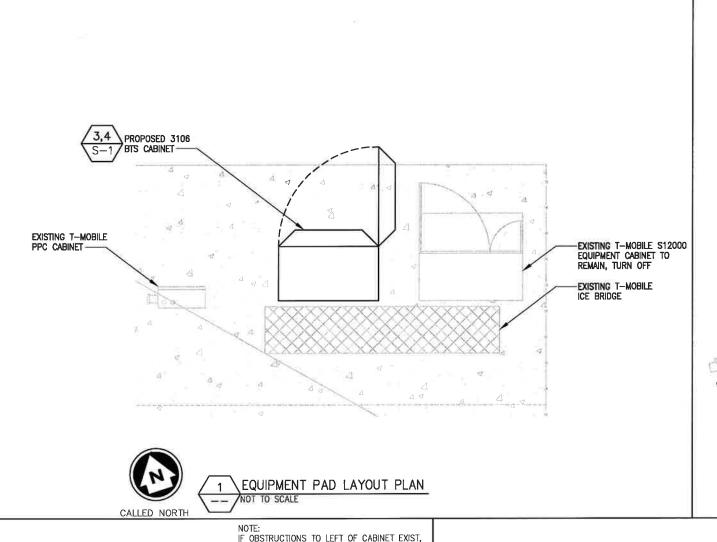
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ANTENNA DETAIL & RF SCHEDULE

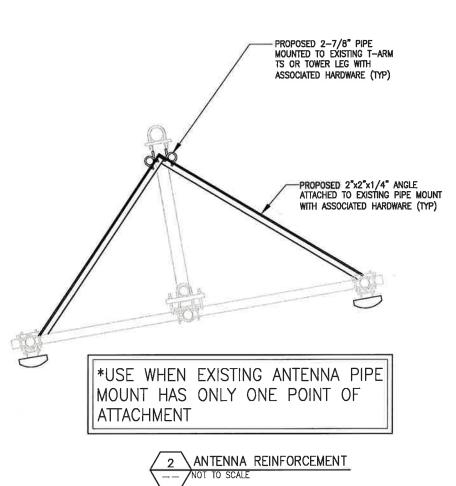
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C-3

SHEET 4 OF 8 SHEETS



PROVIDE 8" OF CLEARANCE FOR DOOR SWING.



STRUCTURAL NOTES:

1. SPECIFICATIONS / CODES:

-CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE -STEEL WORK SHALL BE PERFORMED IN ACCORDANCE

WITH AISC STEEL CONSTRUCTION MANUAL, 9tH EDITION.
-WELDING SHALL BE PERFORMED IN ACCORDANCE

WITH AMERICAN WELDING SOCIETY (AWS) D1.1-92 "STRUCTURAL WELDING" CODE-STEEL. -REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD

PRACTICE."
2. MATERIALS:

-CONCRETE: fc' - 3000psi. (MIN. U.N.O.)
-REINFORCING STEEL: ASTM A615, GRADE 60.
-WIRE MESH: ASTM A185.
-STRUCTURAL STEEL: ASTM A36.

-ELECTRODES FOR WELDING: E 70xx.

-GALVANIZING: ASTM A153 (BOLTS) OR ASTM A123

(SHAPES, PLATES).
-EXPANSION BOLTS: HILTI KWIK BOLT II, STAINLESS STEEL, 3/4"øx43/4" EMBEDMENT OR AN APPROVED

-(E) MOUNTING PIPE

T · · Mobile ·

35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002

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317-1177
JLM
AJD

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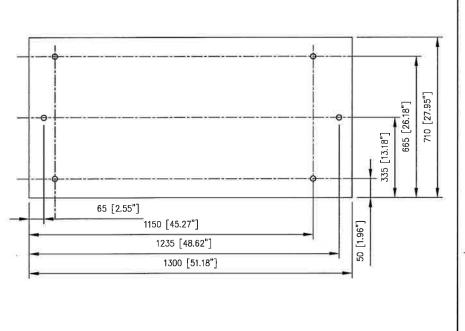
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EQUIPMENT SPECIFICATIONS

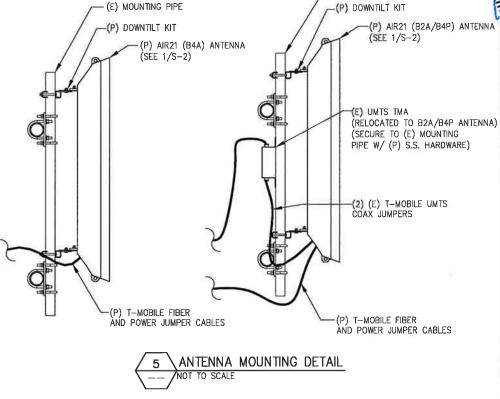
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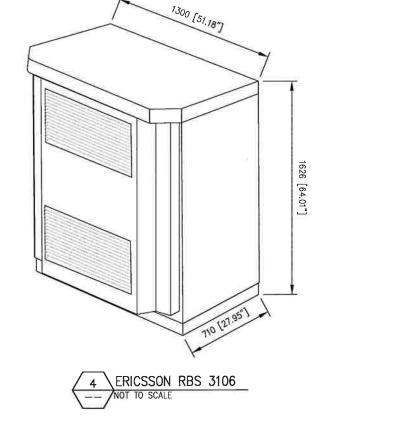
S-1

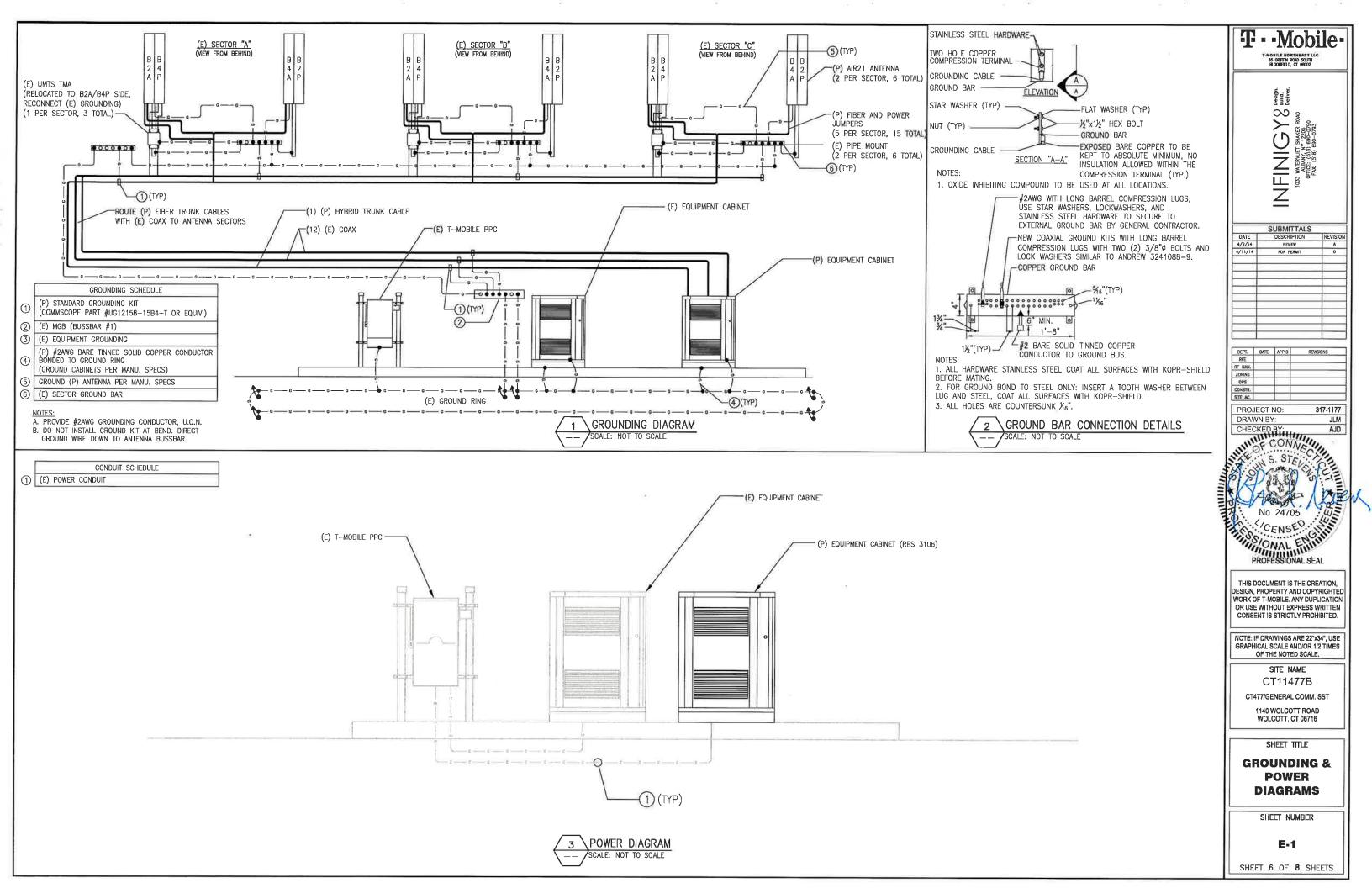
SHEET 5 OF 8 SHEETS

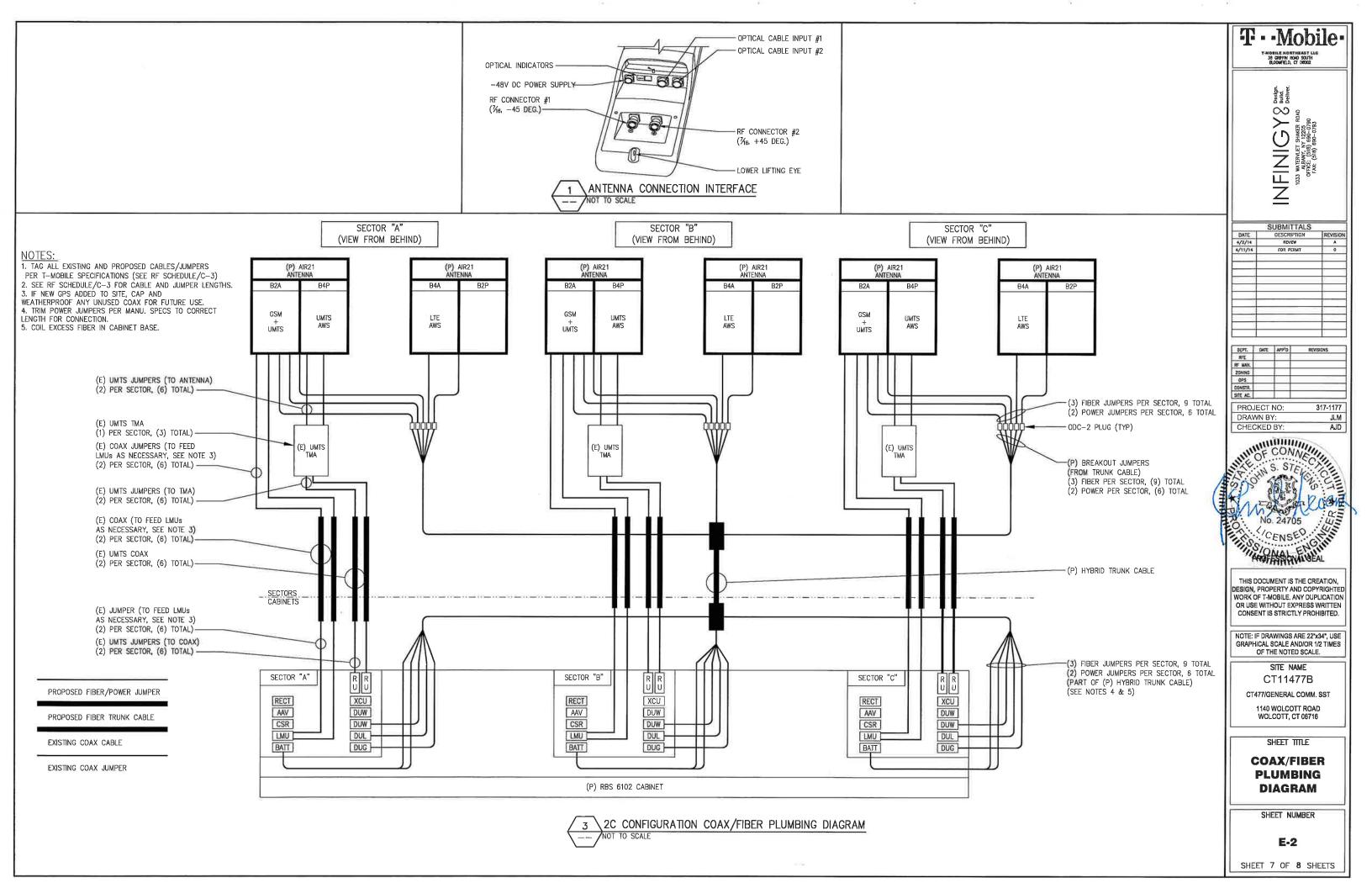


ERICSSON RBS 3106 BOLT HOLE DIAGRAM









ELECTRICAL NOTES:

WORK INCLUDED

- 1. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE
- A. PREPARE AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND ILLUSTRATIONS
- B. PROCURE ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES AND CHARGES IN CONNECTION WITH THE WORK OF THIS CONTRACT.
- C. SUBMIT AS-BUILT DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUALS.
- D. EXECUTE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING OF EXISTING OR NEWLY INSTALLED CONSTRUCTION REQUIRED FOR THE WORK OF THIS CONTRACT. FOR SLAB PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK. COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER.
- E. PROVIDE HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL FRAMING SUPPORTS, AND BASES FOR CONDUIT AND FOLIPMENT PROVIDED OR INSTALLED LINDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS.
- BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING AL TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES. CONNECTIONS AND EQUIPMENT REQUIRED, PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION PURPOSES.
- 2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS, IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS, IT IS CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS

- 1. PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL
- 2. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY, REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING.
- 3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING. CONTRACTOR IS TO VERIFY ALL EXISTING RATINGS AND LOADS PRIOR TO PURCHASING OF SPECIFIED EQUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY ENGINEER.
- 4. EXISTING BUILDING EQUIPMENT IS NOTED ON THE DRAWINGS. NEW OR RELOCATED EQUIPMENT IS SHOWN WITH SOLID LINES. FUTURE EQUIPMENT (NOT IN THIS CONTRACT) IS DEPICTED WITH SHADED LINES, REQUEST CLARIFICATION OF DRAWINGS OR OF SPECIFICATIONS PRIOR TO PRICING OR INSTALLATION.
- 5 GENERAL
- A AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER. IN WRITING. OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND SPECIFICATIONS.

 B. VERIFY ALL MEASUREMENTS AT THE SITE AND BE
- RESPONSIBLE FOR CORRECTNESS OF SAME.
 6. QUALITY, WORKMANSHIP, MATERIALS AND SAFETY
- A. PROVIDE NEW MATERIALS AND EQUIPMENT OF A DOMESTIC MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT. WHERE UL, OR OTHER AGENCY, HAS
 ESTABLISHED STANDARDS FOR MATERIALS, PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY, THE COMMERCIALLY STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE PROPER FUNCTIONING OF THE WORK.
- B. WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK. INSTALL MATERIALS AND FOLIPMENT TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- C. PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT.
- D. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF.
- F. PERFORMANCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE, THE RIGH TO JUDGE THE QUALITY OF FOUIPMENT THAT DEVIATES FROM THE CONTRACT DOCUMENT REMAINS SOLELY WITH ARCHITECT/ENGINEER, CONTRACT DOCUMENT OR NOT
- 1. GUARANTEE MATERIALS. PARTS AND LABOR FOR WORK FOR ONE YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT. DURING THAT PERIOD. MAKE GOOD FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS

CI FANING

- 1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE
- 2. CLEAN EQUIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER. COORDINATION AND SUPERVISION

1. CAREFULLY LAY OUT ALL WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY, HOWEVER, PATCH AND REPAIR THE WORK IN AN APPROVED MANNER BY SKILLED MECHANICS AT NO ADDITIONAL COST TO THE OWNER. RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS IF WORK IS INSTALLED BEFORE COORDINATION WITH OTHER TRADES, OR CAUSES INTERFERENCE MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE

- 1 AS-BUILT DRAWINGS:
- A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER "AS-BUILT" DRAWINGS.
- 2. SERVICE MANUALS:
- A. UPON COMPLETION OF THE WORK, FULLY INSTRUCT T-MOBILE AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL, EQUIPMENT AND SYSTEMS.
- B PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT.

CUTTING AND PATCHING

- 1. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING REQUIRED TO COMPLETE THE WORK.

 2. OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS
- WALLS FOR PIPING OR CONDUIT.

TESTS, INSPECTION AND APPROVAL

- BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION, INSPECT EACH UNIT IN DETAIL. TIGHTEN ALL BOLTS AND CONNECTIONS (TORQUE—TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL COMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE, OPERATIONAL CONDITION.
- 2. PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS. VITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM

- SPECIAL REQUIREMENTS
 1. DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. DO NOT INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
- 2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND SERVICE SYSTEMS, INCLUDING FEEDER OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES. CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF
- INTERRUPTION FOR A TIME MUTUALLY AGREED UPON. SHUTDOWN NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS PRIOR TO SHUTDOWN, ALL SHUTDOWN WORK TO BE SCHEDULED AT A TIME CONVENIENT TO OWNER.

- 1. ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON
- CONDUIT/GROUNDING RISER.

 2. ROUTE 500 KCMIL CU. THHN CONDUCTOR FROM THE MGB LOCATION TO BUILDING STEEL, VERIFY BUILDING STEEL IS EFFECTIVELY GROUNDED PER NEC TO THE MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR (GEC)
- 3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BURNDY COMPRESSION ERMINATIONS, SIZED AS REQUIRED.
- 4. USE 1 HOLE, CRIMP TYPE, BURNDY COMPRESSIONS TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS.
- HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS TESTING, PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT COMPLETION.

- 1. ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN ACCORDANCE WITH THE FOLLOWING: A. EXTERIOR FEEDERS AND CONTROL, WHERE UNDERGROUND, TO
- BE IN SCH 40 PVC. B. EXTERIOR, ABOVE GROUND POWER CONDUITS TO BE
- GALVANIZED RIGID STEEL (RGS). C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO
- BE EMT. D. INSTALL PULL ROPES IN ALL NEW EMPTY CONDUITS INSTALLED ON THIS PROJECT.
- E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED "T-MOBILE". OWNER WILL PROVIDE LABELS FOR CONTRACTOR TO INSTALL
- F. INTERIOR FEEDERS TO BE INSTALLED IN E.M.T. WITH STEEL COMPRESSION FITTINGS.
- G. MINIMUM SIZE CONDUIT TO BE 3/4" TRADE SIZE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
- 1. CONDUIT TO BE RUN CONCEALED IN CEILINGS, FINISHED AREAS OR DRYWALL PARTITIONS, UNLESS OTHERWISE NOTED
- J. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC. REFORE INSTALLING ANY WORK, EXAMINE THE WORKING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND
- K. ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO ATTACHING TO BUILDING STRUCTURE.

RACEWAYS CONT'D

- I PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF ELECTRICAL RACEWAYS, TO BE PROPERLY SEALED AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL, FLOOR OR ROOF SYSTEM TO BE PENETRATED. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED WALLS, CEILINGS OR SMOKE TIGHT CORRIDOR PARTITIONS TO MAINTAIN PROPER RATING OF WALL OR
- M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC CROUNDING BUSHINGS
- N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF 8'-0", OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS.
- O. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN EXPOSED AREAS, PROVIDE ALL OTHER UNUSED BOXES WITH
- P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT , CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS, PER BUILDING.

WIRES AND CARLES

- 1. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT EQUIPMENT OVER-CURRENT PROTECTION VOLTAGE, WIRE SIZE AND PLUG CONFIGURATION, IF APPLICABLE
- 2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED
- GROUND CONDUCTOR.
 3. ALL WIRE AND CABLE TO BE 600VOLT, COPPER, WITH THWN/ THHN INSULATION, EXCEPT AS NOTED.
- 4. WIRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO.
- 12AWG, ALL WIRE NO. 8 AND LARGER TO BE STRANDED.
 5. CONTROL WIRING IS NOT TO BE LESS THAN NO. 14AWG, FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTO CABLES. CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES WHEREVER POSSIBLE, CABLES TO BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED FOR PLENUM USE, ALL CONTROL WIRE TO BE 600VOLT RATED.
- 6. WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED AND IS NOT TO BE RE-PULLED. 7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V
- CIRCUITS: LENGTH (FT.) HOME RUN WIRE SIZE NO. 12 NO. 10 0 TO 50 51 TO 100 101 TO 150 NO. 8
- B. VOLTAGE DROP IS NOT TO EXCEED 3%.9. MAKE ALL CONNECTIONS WITH UL APPROVED, SOLDERLESS, PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOK OR AND APPROVED EQUAL.
- WIRING DEVICES 1. ALL RECEPTACLES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION. DISCONNECT SWITCHES AND FUSES
- 1. DISCONNECT SWITCHES TO BE VOLTAGE—RATED TO SUIT THE CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE 2. PROVIDE HEAVY-DUTY, METAL-ENCLOSED, EXTERNALLY-OPERATED
- DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED. 3. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR
- INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION. 4. DISCONNECT SWITCHES TO BE MANUFACTURED BY
- A. GENERAL ELECTRIC COMPANY B. SQUARE—D
- 5. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE
- 1. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON
- 2. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. FUSES MUST MATCH IN TYPE AND RATING.
 3. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR
- RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL. 4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS
- FOLLOWS: A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF
- 60A, USED FOR INITIAL FUSING. PERCENT SPARES FOR EACH TYPE AND SIZE, UP TO AND INCLUDING 60A, USED FOR INITIAL FUSING, IN NO CASE WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

GENERAL NOTES:

INTENT

- 1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
- 2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH
- 3. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT
- 4 THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED
- 5. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS
 OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
- 2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
- 3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

- 1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.
- 2. SEE MASTER CONTRACTION SERVICES AGREEMENT FOR

1. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK, ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER

- 1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK AND AT THE COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY TO USE.
- FXTERIOR A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FORFIGN MATTER
- REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
 C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF
- CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE 3. INTERIOR A, VISUALLY INSPECT INTERIOR SURFACE AND REMOVE ALL
- TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM WALLS, FLOOR, AND CEILING REMOVE ALL TRACES OF SPLASHED MATERIALS FROM

C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM

FINISHED SURFACES.

ADJACENT SURFACES.

CHANGE ORDER PROCEDURE: 1. REFER TO SECTION 17 OF SIGNED MCSA: SEE PROFESSIONAL SERVICE AGREEMENT FOR MCSA.

RELATED DOCUMENTS AND COORDINATION

1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS, ALL COORDINATION TO BE THE RESPONSIBILITY OF THE CONTRACTOR

SHOP DRAWINGS

- . CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR
- 2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE OWNER.

PRODUCTS AND SUBSTITUTIONS

- 1. SUBMIT 3 COPIES OF FACH REQUEST FOR SUBSTITUTION, IN EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OF INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING
- COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS
 2. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS. PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEFMED NECESSARY BY THE OWNER, SUBMIT ACTUAL SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT

ARCHITECTURAL SYMBOLS

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DETAIL REFERENCE KEY

- DRAWING DETAIL NUMBER-

LSHEET NUMBER OF DETAIL:

(x)-

REFER TO

RE: 2/A-3

OUALITY ASSURANCE

ALLIT ASSURANCE

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL,
STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE, BUT
NOT BE LIMITED TO THE APPLICABLE CODES SET FORTH BY THE LOCAL GOVERNING BODY, SEE "CODE COMPLIANCE" T-1

ADMINISTRATION

- 1. BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT THIS PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
- SUBMIT A BAR TYPE PROGRESS CHART, NOT MORE THAN 3 DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OR UNIT OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE WORK.
- 3. PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE, BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, LAND OWNER REPRESENTATIVE, LOCAL TELEPHONE COMPANY TOWER ERECTION FOREMAN (IE
- 4. CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR A BEEPER, THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED
- 5. DURING CONSTRUCTION, CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL WPCS SAFETY REQUIREMENTS IN THEIR AGREEMENT.
- PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE OWNER
- 7. COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO START OF CONSTRUCTION NOTIFY THE OWNER/PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

INSURANCE AND BONDS

- CONTRACTOR, AT THEIR OWN EXPENSE, SHALL CARRY AND
 MAINTAIN, FOR THE DURATION OF THE PROJECT, ALL INSURANCE, AS REQUIRED AND LISTED, AND SHALL COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER, REFER TO THE MASTER AGREEMENT FOR
- 2. THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON 3. CONTRACTOR MUST PROVIDE PROOF OF INSURANCE.

AGL

CAB

CONC

CONT

DWG

ELEC

ELEV

EQ EQUIF

EGB

(E) EXT

GA GALV

GRND

LG

MAX

MW

MFR

MGB

MIN

MTL

NTS

OC OPP

(P) PCS

PPC SF

SHT

SIM

SS

STL TOC TOM

TYP VIF UON

WWF

MECH

EΑ

DIA OR Ø

APPROX

ABBREVIATIONS ABOVE GROUND LINE AND APPROXIMATE

BASE TRANSMISSION STATION

CABINET

CEILING

CONCRETE

DIAMETER

ELECTRICAL

ELEVATION

EQUIPMENT

EXISTING

EXTERIOR

GAUGE

GROUND

MAXIMUM

MINIMUM

METAL

NFW

MECHANICAL

MICROWAVE DISH

NOT IN CONTRACT

NOT TO SCALE

ON CENTER

OPPOSITE

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STEEL

TYPICAL

SIMIL AR

SQUARE FOOT

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UNLESS OTHERWISE NOTED

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TOP OF MASONRY

VERIEY IN FIFLD

MASTER GROUND BAR

MANUFACTURER

LONG

FINISHED FLOOR

GALVANIZED

FOLIPMENT GROUND BAR

GENERAL CONTRACTOR

DRAWING

EACH

FQUAL

CONTINUOUS

CONNECTION S. STELLER No. 24705

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PROJECT NO:

DRAWN BY

RE WAN.

ZONING

CONSTR.

DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.

OF THE NOTED SCALE.

SITE NAME CT11477B CT477/GENERAL COMM, SST

1140 WOLCOTT ROAD

WOLCOTT, CT 06716

GENERAL AND ELECTRICAL

SHEET TITLE

N-1

SHEET 8 OF 8 SHEETS

PERSONAL COMMUNICATION SYSTEM POWER PROTECTION CABINET NOTES SHEET NUMBER

T · Mobile

Design Bulld. Deliver

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INFINIG

SUBMITTALS

DESCRIPTION

WATERVLIET ALBANY, N' PFICE: (518) FAX: (518) E

REVISIONS

317-1177

JLM

NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES