



**NSS** **NORTHEAST**  
SITE SOLUTIONS

*Turnkey Wireless Development*

September 25, 2020

Attorney Melanie Bachman  
Acting Executive Director  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06501

**EM-T-MOBILE-056-200617**

T-Mobile Site ID CTHA162A

30 Higley Road, Granby, CT

Notice of Compliance with Conditions and Construction Completion

Dear Attorney Bachman:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Prior to T-Mobile's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by Mastec Network Solutions, dated June 12, 2019 and stamped and signed by Raphael Mohamed;
2. Within 45 days following completion of equipment installation, T-Mobile shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
6. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
7. The validity of this action shall expire one year from the date of this letter; and
8. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The attached PE Closeout Letter dated September 23, 2020 provides evidence of compliance with the conditions outlined by the Council. In addition, T-Mobile hereby notifies the Council that construction of the acknowledged modifications were complete as of September 1, 2020.

Sincerely,

*Victoria Masse*

Victoria Masse  
Zoning and Permitting  
Northeast Site Solutions



Date: **September 23, 2020**

Charles McGuirt  
Crown Castle  
3530 Toringdon Way Suite 300  
Charlotte, NC 28277

MasTec Network Solutions  
507 Airport Blvd, Suite 111  
Morrisville, NC 27560  
(919) 244-5207

**Subject:** **Mount Modification Approval Letter**

**Carrier Designation:** **T-Mobile Equipment Change-Out**  
**Carrier Site Number:** CTHA162A  
**Carrier Site Name:** CTHA162/CINGATT Permit\_FT

**Crown Castle Designation:** **Crown Castle BU Number:** 846295  
**Crown Castle Site Name:** Granby - Higley Road  
**Crown Castle JDE Number:** 559284  
**Crown Castle Order Number:** 479846 Rev 0

**Engineering Firm Designation:** **MasTec Network Solutions**  
**Project Number:** 18750-PEL1

**Site Data:** **30 Higley Road, West Granby, Hartford County, CT 06090**  
**Latitude: 41° 57' 56.80" Longitude: -72° 51' 19"**

**Structure Information** **Tower Height & Type:** 119 ft Monopole  
**Mount Elevation:** 110 ft  
**Mount Width & Type:** 14.5 ft Platform Mount

Dear Charles McGuirt,

MasTec Network Solutions is pleased to submit this "**Mount Modification Approval Letter**" to determine if the installed modifications are sufficient for T-Mobile's antenna mounting system with the proposed appurtenance and equipment addition on the above mentioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the assessment is to determine acceptability of the mount stress level. Based on our assessment we have determined the mount stress level to be:

**Platform Mount**

**Sufficient**

The analysis has been performed in accordance with an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Vladimir Blanchard

Respectfully Submitted by:

Raphael Mohamed, PE, Peng  
Senior Director of Engineering  
CT PE License No. 25112



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### 1) INTRODUCTION

This is a 14.5 ft Platform Mount mapped by P-Sec.

### 2) ANALYSIS CRITERIA

<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category</b>	II
<b>Ultimate Wind Speed:</b>	125 mph
<b>Exposure Category:</b>	B
<b>Topographic Category:</b>	1
<b>Ice Thickness:</b>	2 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Seismic Ss:</b>	0.176
<b>Seismic S1:</b>	0.065
<b>Live Loading Wind Speed:</b>	30 mph
<b>Live Loading at Mid/End-Points:</b>	250 lb
<b>Man Live Loading at Mount Pipes</b>	500 lb

**Table 1 - Proposed Loading Configuration**

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
110.0	107.0	3	rfs/celwave	APX16DWV-16DWV-S-E-A20	(1) 14.5' Platform
		3	rfs/celwave	APXVAARR24_43-U-NA20	
		3	ericsson	KRY 112 489/2	
		3	ericsson	RADIO 4449 B12/B71	

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Remarks	Reference	Source
4-ORDER INFORMATION	CROWN CASTLE	Order No. 479846, Rev. 0	CCIsites
4-MOUNT MAPPING	P-Sec	Project No. 19651-16	On File
4-MOUNT ANALYSIS	Mastec Network Solutions	Project No. 18750-MNT1	On File
4-MOUNT MODIFICATION ANALYSIS	Mastec Network Solutions	Project No. 18750-MOD1	On File
CLOSE OUT PHOTOS	CROWN CASTLE	Email	Appendix A

### 3.1) Assumptions

- 1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specifications.
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Tables 1 and the referenced drawings.
- 3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 4) Steel grades have been assumed as follows, unless noted otherwise:

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM 500 (GR B-46)
Pipe	ASTM A53 (GR B-35)
Connection Bolts	ASTM A325

This analysis may be affected if any assumptions are not valid or have been made in error. Mastec should be notified to determine the effect on the structural integrity of the antenna mounting system.

**APPENDIX A**  
**SITE PHOTOS**

