

November 14, 2017



Crown Castle  
500 West Cummings Park, Suite 3600  
Woburn, MA 01801

**RE: Structural Assessment**

Site Number: NM03XC066  
Crown BU#: 878782  
Site Name: Portland Warren Ave  
Site Address: 188 Warren Ave  
Portland, ME 04103

To Whom It May Concern:

Hudson Design Group LLC (HDG) has been authorized by Crown Castle to perform a structural assessment on the existing Sprint antenna mounts to determine their capability of supporting the following additional equipment:

- **(3) DT465B-2XR Antennas (one per sector)**
- **(1) APXVSP18-C-A20 Antenna (in place of one existing Antenna) (Beta Sector)**
- **(6) 800 MHz 2x50W RRH's (two per sector)**
- **(3) TD-8X20-25 RRH's (one per sector)**

Based on our evaluation, we have determined that, in general, structural designs to support the proposed Sprint equipment within or near the proposed location can be completed and components installed with the following modification:

- **Install new platform reinforcement kit P/N PRK-1245L (or approved equal).**

HDG did not perform a site visit or mount mapping. HDG used field photographs provided by Sprint and Crown application to perform this assessment.

This determination was based on the following limitations and assumptions:

1. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
2. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities. Contractor is to perform a pre-inspection to confirm.
3. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
4. All the components supporting the Sprint antennas mounts are assumed to be designed to all applicable codes and designed for identical to or larger than the currently proposed loads.
5. All components pertaining to Sprint's mounts must be tightened and re-plumbed prior to installation of new appurtenances.
6. This assessment was performed on the mount itself, not the supporting tower structure.

Please feel free to contact our office should you have any questions.

Respectfully Submitted,  
Hudson Design Group LLC



Michael Cabral  
Structural Dept. Head



Daniel P. Hamm, PE  
Principal