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September 15, 2016

Joseph Laydon  
Town Planner  
Grafton Municipal Center  
30 Providence Road  
Grafton, MA 01519

**RECEIVED**

**SEP 30 2016**

**PLANNING BOARD  
GRAFTON, MA**

**SUBJECT: 104 CREEPER HILL ROAD CELL TOWER  
ADDITIONAL REQUESTED RF COVERAGE PLOTS – VERIZON WIRELESS**

Mr. Laydon:

In response to the requests made at the August 29, 2016 public meeting from members of the Grafton Planning Board related to the effects of a lower antenna height, Verizon Wireless is submitting the RF coverage maps attached hereto. The RF Report dated June 21, 2016 that was prepared on behalf of Verizon Wireless and contained within the subject application, includes maps labeled as Attachments A-E. For continuity, the maps included here are sequentially labeled as an extension to the initial set of attachments in the RF Report.

- **Attachment F** titled “Grafton 3 – 700 MHz LTE Coverage with Proposed Site at 100 ft” shows the composite Verizon Wireless coverage if their antennas were to be lowered 20 feet, to a centerline height of 100 feet AGL (Above Ground Level). This map can be used in comparison to Attachment B of the RF Report. As expected, the reduction in height tends to further exacerbate the weaker coverage areas such as near the Rt. 122/Deernolm Street intersection and the Rt. 122/I-90 Toll Plaza ramp.
- **Attachment G** titled “Grafton 3 – 700 MHz LTE Coverage with Proposed Site at 80 ft” shows the composite Verizon Wireless coverage if their antennas were to be lowered 40 feet, to a centerline height of 80 feet AGL. Coverage at this height is substantially more impacted, as noted by the larger coverage gaps that open up along Rt. 122 and Deernolm Street. While a coverage map reflecting antennas at 80 feet AGL was not specifically requested, the intent of providing this map is to show that antenna heights below 100 feet AGL are likely to be rendered ineffective at providing reliable service to this area of northwest Grafton.

To the extent there are any questions related to Attachments F & G, we welcome any inquiries in the interim and will attempt to address them at the next meeting presently scheduled for October 3, 2016.

Sincerely,

Keith Vellante  
RF Engineer  
C Squared Systems, LLC  
Contractor to Verizon Wireless

Enclosures (2)





