

February 3, 2020

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **EM-VER-015-180118 – Cellco Partnership d/b/a Verizon Wireless
205 Kaechele Place, Bridgeport, Connecticut**

Dear Ms. Bachman:

On February 5, 2018, the Siting Council acknowledged receipt of the above-referenced notice of intent to modify the existing telecommunications facility at 205 Kaechele Place in Bridgeport, Connecticut. Cellco's proposed modifications involved the replacement of antennas and remote radio heads.

As a condition of the approval, Cellco was required to provide the Council with a letter stating that it had complied with the recommendations made in the structural report attached to the exempt modification filing. Attached is a Professional Engineer's evaluation letter verifying that the installation was completed according to that structural report.

If you have any questions please do not hesitate to contact me.

Sincerely,



Kenneth C. Baldwin

Attachment
Copy to:
Tim Parks

On Air Engineering, LLC

88 Foundry Pond Road
Cold Spring, NY 10516
onair@optonline.net

January 31, 2020

Mr. Andrew Leone
Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Re: Verizon Site Name: Trumbull SW CT – Antenna Modification - Engineering Letter of Compliance
Crown Castle #841288; 205 Kaechele Place, Bridgeport, CT

Design Engineer: Paul J. Ford & Company

CSC Reference #: EM-VER-015-170118

Dear Andrew:

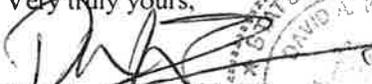
We are providing this letter of compliance with regard to the above referenced project. The following are the basis for substantiating compliance with this modification:

- Monopole Modification Drawings (10-pages) provided within the Structural Analysis Report by Paul J. Ford & Company (PJF) dated 4-11-17 and stamped by Justin Kline
- Modification Inspection Report by Tower Engineering Professionals (TEP) dated 6-8-18
- Field observations by On Air Engineering, LLC personnel on 1-30-20

The tower modification as designed within the above referenced PJF analysis and drawings was inspected and “passed” as noted within the attached TEP Inspection Report.

The work under this contract has been reviewed and found, to the Engineer’s best knowledge, information and belief, to be completed in general compliance with the referenced documents and in conformance with the permit issued for this work. Please feel free to contact our office if you have any questions.

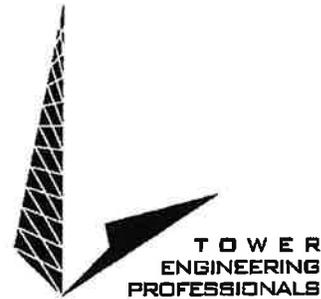
Very truly yours,


David A. Weinpahl, P.E.
CT License No. 22144
Managing Partner
On Air Engineering, LLC



DW:dw

Tower Engineering Professionals
 326 Tryon Road
 Raleigh, NC 27603
 (919) 661-6351 (Office)
 (919) 661-6350 (Fax)
PMI@tepgroup.net



Date: **June 8, 2018**

Mr. Dan Vadney
 Crown Castle, USA
 3 Corporate Park Drive, Suite 101
 Clifton Park, NY 12065
 (518) 373-3510
Dan.Vadney@crowncastle.com

Subject: Modification Inspection Report

Crown Castle Designation: Crown Castle BU Number: 841288
 Crown Castle Site Name: Bridgeport North
 Crown Castle JDE Job Number: 416902

Engineering Firm Designation: TEP Project Number: 25567.87194

Site Data: 205 Kaechele Place
 Bridgeport, Fairfield County, CT 06606
 Latitude N 41° 13' 24.04", Longitude W 73° 13' 0.38"
 150 Foot – Monopole Tower

Tower Engineering Professionals is pleased to submit this “**Modification Inspection Report**” (MI Report) to Crown Castle for the modification/reinforcement to the subject structure. This Modification Inspection (MI) was performed in accordance with Crown Castle CED-SOW-10007 Modification Inspection SOW, Contract Documents, and Crown Castle Purchase Order number 1100491. The purpose of this MI is to confirm that the modification installation configuration and workmanship are in accordance with the contract document(s) listed in Table 2. The MI is not a review of the adequacy or effectiveness of the modification/reinforcement solution.

Table 1 – General Information

	Company	Contact	Dates on Site
MI Vendor	Tower Engineering Professionals	Kevin R. Arnett, P.E., C.W.I.	N/A
MI Crew Lead	Tower Engineering Professionals	Scott Coburn	5/7/18
Assistant Inspector	Tower Engineering Professionals	Kyle Steinmann	5/7/18
		<input checked="" type="checkbox"/> Independent	<input type="checkbox"/> EOR

Table 2 – Documents

Document(s)	Remarks	Source
EOR: Paul J. Ford and Company Date: April 5, 2017 Job #: 37517-0750	Creator of Drawings: Justin T. Kline, P.E. Date: 4/5/17 Job #: 37517-0750	CCIsites Drawing File: 6801057

Based on our inspection, Tower Engineering Professionals determines this project:

PASSING MI

The configuration, materials and/or workmanship of the modifications are installed in accordance with the Contract Documents and no deficiencies were found.

FAILING MI

The configuration, materials and/or workmanship of the modifications are NOT installed in accordance with the Contract Documents. The rejection is based on non-conformance in the following area(s):

- Materials (see detail below)
- Workmanship (see detail below)
- Configuration (see detail below)

Table 3 – Modification Scope of Work

Item	Description	Reference
Anchor rod installation at the base	The anchor rods were installed on the points of flats 2/1, 5/4, 8/7, & 11/10 instead of on flats 2, 5, 8, & 11. The anchor rod holes were drilled into the existing baseplate and then plug welded closed after it was determined that the anchor rods would need to be moved. The bolt circle for the anchor rods is 48.63-in. due to the new locations.	S-5
(4) New transition stiffeners welded at the base	The stiffeners were installed on the points of flats 3/2, 6/5, 9/8 & 12/11. Existing stiffeners were cut vertically flush to the face of the existing shaft reinforcing. Footpads reduced in size to 5-in x 6-in. The transition stiffener weld geometry was changed to single sided CJP with backer plate. The welds on the existing plates were lengthened when the transition stiffener locations were changed. Flats 2 & 8 have welds extending for 8-ft. 6-in. Flats 5 & 11 have welds extending for 13-ft. 6-in.	S-5
DYWIDAG bar removal from 0-ft to 98-ft	No exceptions noted.	S-3
Reinforcement plate installation from 3.5-ft to 108.66-ft	The tower splices were verified at 31-ft. and 69.5-ft. rather than 30-ft and 69-ft. as shown.	S3 & S-4

<p>Reinforcement plate installation from 3.5-ft to 108.66-ft (Continued)</p>	<p>Top flat reinforcement elevation measured shorter than specified, measuring 106' (Flat 4) and 107-ft. 9-in. on flat 7.</p> <p>Termination bolts were installed instead of vertical welds for the plate reinforcement on flats 1, 4, 7, & 10.</p> <p>(15) Bottom termination bolts were installed on the bottom plate on flat 1. (13) Bottom termination bolts were installed on the bottom plates on flats 4, 7, & 10.</p> <p>Both splice plates, on flats 1, 4, 7, & 10, measures 9-ft. 7-in. instead of 8-ft. 10-in. as specified</p> <p>A 3/16" continuous shim plate was installed in conjunction with the bottom termination bolts for the lower plates on flats 1, 4, 7, & 10.</p> <p>The existing flat bar on flat 12 from 92-ft. 2-in. to 103-ft. 2-in. was removed.</p> <p>Spacer plates were installed behind the collar mounts at 99-ft. on flats 3 & 8. These plates are 23.5-in. in length, 2-in. in depth, and 4-in. in width.</p> <p>(20) Top termination bolts were installed to the plate on flat 4 terminating at 106-ft. The top bolt is double punched and does not count structurally.</p> <p>(19) Top termination bolts were installed to the plate on flat 7. This plate was trimmed to a length of 34-ft. The cut was made through a bolt hole.</p>	
<p>Tuf-tug step bolt climber rail system installation from 10-ft to 150-ft</p>	<p>No exceptions noted.</p>	<p>S-3</p>

- No deviations from the original design or MI checklist were discovered.
- The as-built conditions vary from the original design drawings. Changes were approved.
- The EOR waived the requirement for the shop drawings. See Correspondence section.

Respectfully submitted,



Kevin R. Arnett, P.E., C.W.I.