

August 28, 2018

CRC Design Associates, LLC

4733 South 6th Street
Arlington, VA 22204
Charles R. Chalfant, PE

Studio3877

3333 K Street, NW
Suite #60
Washington, DC 20007
Attn: Ryan Petyak, AIA

Subject: Difficulty of Insetting of Third-Story Addition
Project: Residence 1347
Location: 1347 G Street, SE, Washington, DC 20003

Dear Mr. Petyak,

1. Per your request to review the current subject permit construction drawings, both as currently proposed and prospective, I offer my professional opinion as to structural implications of providing a third-story addition (the "Vertical Addition") with a footprint that does not match the footprint of the existing 2-story structure.

2. In summary, reducing the footprint of the Vertical Addition, via "insetting" its exterior rear wall, would require you to provide an additional beam under the third floor wall carrying the roof load, and would also require you to provide columns set at ends down to foundation. This would also likely require an enlarged footing. This additional work would result in significant additional engineering and construction costs.

3. If you have questions, I can be reached by cell phone at 703-822-1861 or via email at chalfantcharles@gmail.com

Sincerely,



Charles R. Chalfant, PE
Structural Engineer

