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March 3, 2022

Mr. Cody Jackson The Welding Machine, LLC 62 Judi Lee Road Lillington, NC 27456

RE: Residential Garage – Review of Plans and Recommendations

MCA #2202

Dear Mr. Jackson:

McGee Consulting Associates, Inc. (MCA) was asked to review whether the Residential Garage plans prepared by you meet the requirements of the current North Carolina Building Code (2018 NCBC).

MCA determined that the columns and footings will need to support a load of 3,800 lbs based on the proposed layout. The HSS3x3x1/4 columns will support a load of 20,460 lbs, so the columns will sufficiently support the actual loads. The 18"x18"x14" footings will support a load of 4,500 lbs based on nominal 2,000 psf bearing capacity soil recommended in the 2018 NCBC, so the footings will support the actual loads.

MCA analyzed the proposed beams and determined that the beams have sufficient strength to support the loads, but the beams will over-deflect under the code prescribed loads. MCA has determined the beams must be an HSS4x3x1/4. See the attached sketch for beam size adjustments.

MCA approves of the overall design intent with the above-mentioned adjustments. No resubmission of the plans to MCA will be required.

Please review this information and let me know if there are any questions or concerns.

Cordially,

Frank E. Henry, PE

MCA COA #C-2716

