Mark E. Jones, PE Structural Engineering and Design

July 8, 2019

Ken and Lynne Griffin 881 McNeil Mill Rd. Broadway, NC 27505

Ref: Site Observations and Analysis 881 McNeil Mill Rd. Broadway, NC Project No: 19-135

To Whom it may concern;

The above referenced site was visited June 26, 2019 and July 7, 2019 to evaluate the construction of the front porch, side porch and rear steps.

At the original visit several deficiencies were observed and noted, including;

- inadequate attachment of the deck band to the main house
- no diagonal bracing on support posts
- girders and headers spliced within supports
- inadequate connections between the porch posts and floor/ceiling
- handrails not at Code required height
- roof rafters not adequately tied down

Note that footings were exposed and verified as being of adequate size and location for all porch support posts.

An itemized list of repairs was generated and given to the homeowner to correct the deficiencies (see attached). Upon reinspection on July 7, all deficient items had been corrected, albeit some slightly different than the recommended repairs. Specifically;

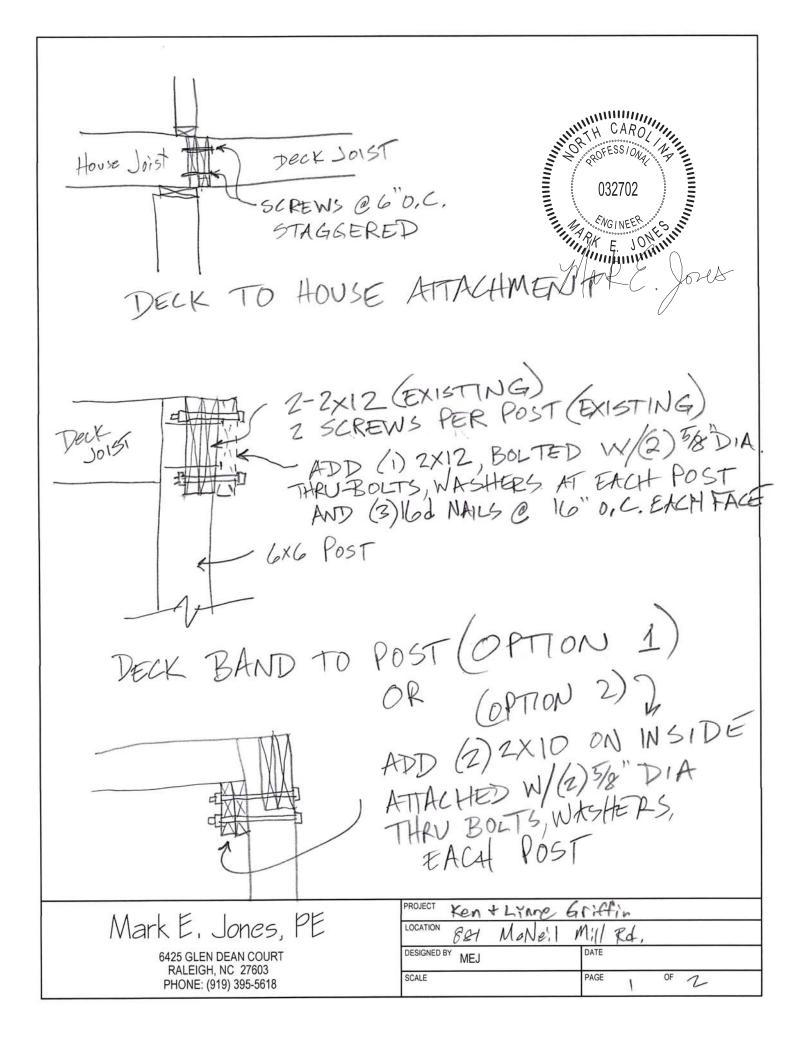
- the deck band has been adequately attached with the required number of fasteners
- diagonal bracing has been installed along the exterior line of the front porch
- a new 2-2x10 girder has been installed on the exterior line of the front porch
- all porch posts have been mechanically fastened at the base and top
- the 3-2x10 headers along the front porch have been adequately repaired
- ceiling joists/rafters have been adequately anchored
- handrails have been corrected to meet Code requirements.
- The side porch headers have been adequately fastened and connected to the support posts.
- The rear steps were observed to be adequately constructed

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In summary, the construction of the front porch, side porch and rear steps are structurally sound and meet the requirements of the 2018 NC Residential Building Code.

Thank you for this opportunity to assist you. If you have any questions or need any further assistance, please do not hesitate to the state to the s

Respectfully, Mark E. Jones, PE Mark E. Jones, PE Mark E. Jones, PE



- PROVIDE 4X4 DIAGONAL KNEE BRACING 2×6 CROSS BRACING. ATTACH W/ 5/8" DIA. THEN BOUTS TOP AND BOTTOM, ALSO PROVIDE CENTER BLOCK W/THRU BOLT - STAIR HANDRAIL HEIGHT MUST BE BETWEEN 34"-38" RAFTER ADD HZ.SA CUP AT EACH RAFTER 3-2×10 HEADER PROVIDE(2)3'X3"ANGLES - NO SPLICES WITHIN 24" OF EACH OTHER O32702 6×6 - CONNECT WITH (3) 162 NAILS AT 16" O.C. BOTH STDES IN GENERAL - CONNECT WITH (3)162 NAUS AT f'O.C. BOTH SIDES WITHIN 12" OF SPLICE Ken & Lynne Griffin PROJECT Mark E. Jones, PE LOCATION 881 McNeil Rd M:11 DESIGNED BY 6425 GLEN DEAN COURT MEJ RALEIGH, NC 27603 SCALE PAGE 2 PHONE: (919) 395-5618 2