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23 March 2018

To: To Whom It May Concern  
Cc: Clint Adams

Re: 31 Compass Landing  
Permit # 18-50043174

Harnett County NC  
JAMPE Job Number 1803-42

The following design and recommendation is based on the latest edition of the North Carolina State Building Code and any local codes that may be in effect at the time of this letter.

Live Loads: Roof/Limited Storage- 20 psf  
Dead loads as applicable. Allowable Soil Pressure- 2000psf Wind load- 27 psf.  
Allowable Stress: #2 SPF- 875 psi #2 SYP- 1050 psi LVL- 2900 psi

Groundwater seepage and water table level has introduced ground water into footings for new construction. Flow due to granular content of soils Flow rate not detrimental to bearing

Soils slightly over excavated in native sandy silts and clay sands with small silt-gravel mix

Soils bearing in excess of 2000 pounds per square foot at base of footing

Footing clean, free of loose or cave-in material or expansive **soils or organic material and with only minor groundwater seepage at time of review and prior to stone backfill**

**Builder may backfill with 57 / 67 stone to reduce footing depth and bring base of footing above water table and to provide drain path for groundwater without undermining footing Stone NOT required for bearing**

**Or Volume of excavation at removed stump / root mass is not sufficient to cause over burden Contractor may fill over excavated area with concrete**

Respectfully,

John A. McRae  
NCPE 20081

Questions or Comments John A McRae [jampe@nc.rr.com](mailto:jampe@nc.rr.com)  
Design is to NCBC Residential Code



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