

# Takla Engineering, PLLC

NC Firm License # P-1952

Consulting | Design | Efficiency

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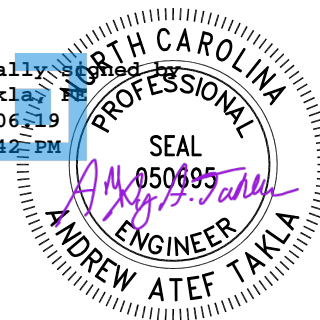
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NC PE License # 047507

NC PE License # 050695

**Project:** 2715 Ashe Ave.  
**Location:** Dunn, NC  
**Company:** STE General Contractors  
**Care Of:** Shane McLeod  
**Subject:** Rebar Omission  
**Job Number:** 2-2754-24

Electronically signed by  
 Andy A. Takla, PE  
 Date: 2024.06.19  
 Time: 4:19:42 PM



As requested, Andy Takla, PE prepared this report on June 19th, 2024 to provide formal documentation of the following:

We have reviewed the structural plans for the proposed build - Plan Name: BB-2282R ; Designed by "House Plan Zone".

On sheet 2, details 203, 205, 220, 221 and 223 all note steel reinforcement in the footing detail.

**Based on review, provided the soil quality is found suitable and firm (no less than 2000 PSF) the per plans rebar may be deemed optional (IE not required by code nor calculations).**

### Notes on Reinforcement:

1- We do however strongly recommend the use of welded wire fabric and/or fiber reinforcement in the slab.

2- **Where unbalanced conditions of the foundation wall (IE distance between top of slab and grade) meet or exceed 36"; we recommend the installation of vertical rebar within the footings, stem wall, and slab. Specifically, we recommend**

A - (2) continuous #4 rebar in footings.

B - Vertical rebar with a 6" hook into footings, and 24" spline into the slab. Rebar shall be #4 spaced at 32" (for 3' to 4' unbalanced) and 24" (for 4'-5' unbalanced).

**These reinforcement need only be installed at areas of greater unbalanced fill (if any). All stem walls shall be filled solid with grout or concrete regardless of unbalanced height.**

Limitations of Inspection: Services provided are in accordance with the standard of practice for structural engineering, the North Carolina Residential Code (2018 edition) and within the limits imposed by scope, schedule and budget. The determinations contained in this report are based on conditions observed at the time of the evaluation. No guarantees or warranties, expressed or implied, under this agreement or otherwise, shall be construed in connection with services provided. Sequencing, shoring, means and methods of construction are considered beyond the scope of this report. All information used to form decisions and recommendations provided to engineer are taken as truthful. Takla Engineering assumes no responsibility for untruthful statements provided by any party. Lastly, while every effort has been made to ensure accuracy in the preparation of this document, the maker cannot guarantee against human error nor evaluations of structural elements which are concealed from visual inspection.

