JS CONSULTING & DESIGN

STRUCTURAL ENGINEERING

11703 DURANT RD

RALEIGH, NC 27614

P [919] 675-1680

F [919] 324-3681

CERTIFICATE NUMBER: P-1513

Client:

Luna Metal Buildings and Concrete

904 N Fayetteville St

Asheboro, NC 27203

(o) 336-628-0273

Project:

24'x48'x9'

Elise McAllister

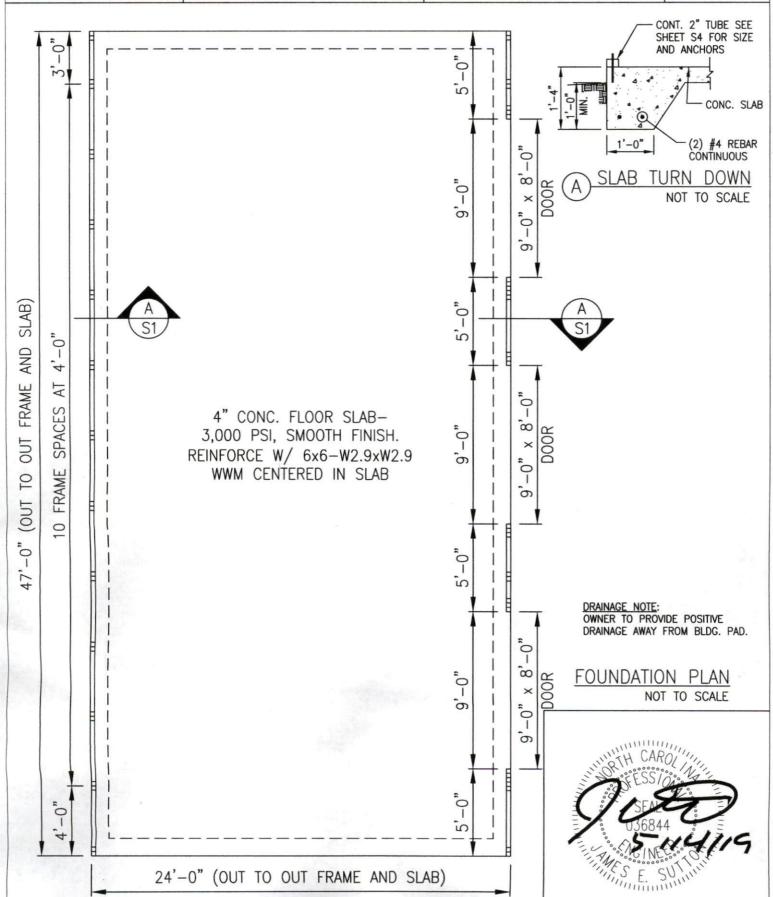
3411 Oakridge River Rd

Fuuay-Varina, NC 27526

Job No: 1901-670

Date: 05/14/19

Sheet:



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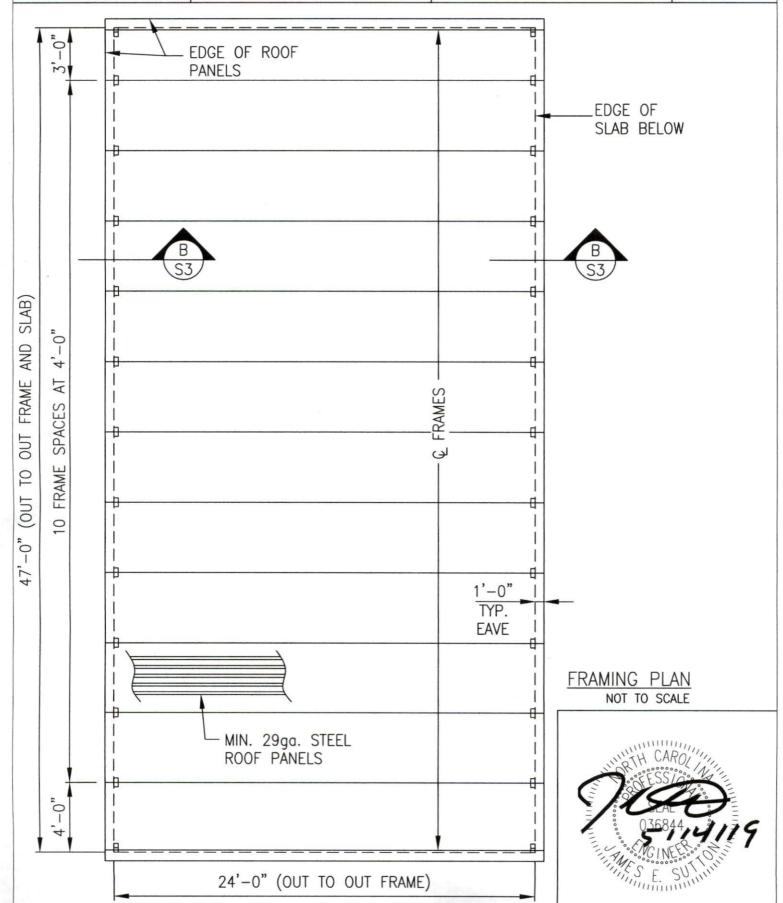
Project:

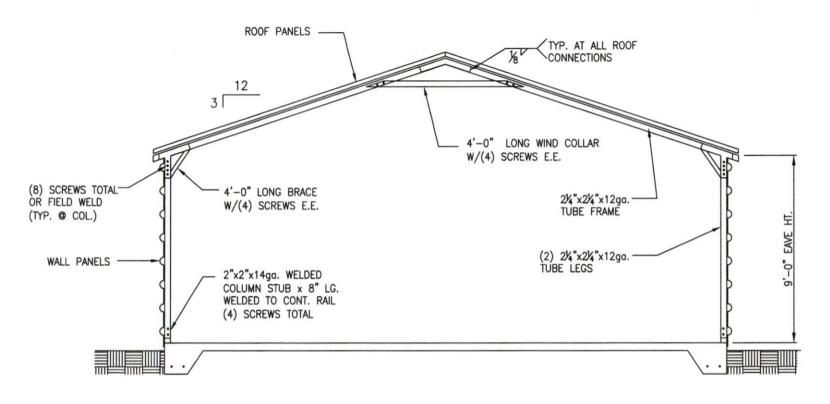
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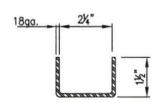


## TYPICAL CROSS SECTION B-B NOT TO SCALE



## GABLE END WALL FRAMING

GABLE END WALLS SHALL BE FRAMED @ 4' O.C. USING 2-1/4" 14ga SQUARE TUBES TO THE BOTTOM RAIL AND RAFTERS W/ L-CLIPS AND (2) SCREWS IN EACH LEG OF THE CLIP. ANY STUDS OVER 13'-0" IN LENGTH SHALL BE (2) 2-1/4" 14ga AND ATTACHED W/ (2) L-CLIPS AND (2) SCREWS IN EACH LEG OF THE CLIP.



TYP. WIND COLLAR/BRACE NOT TO SCALE

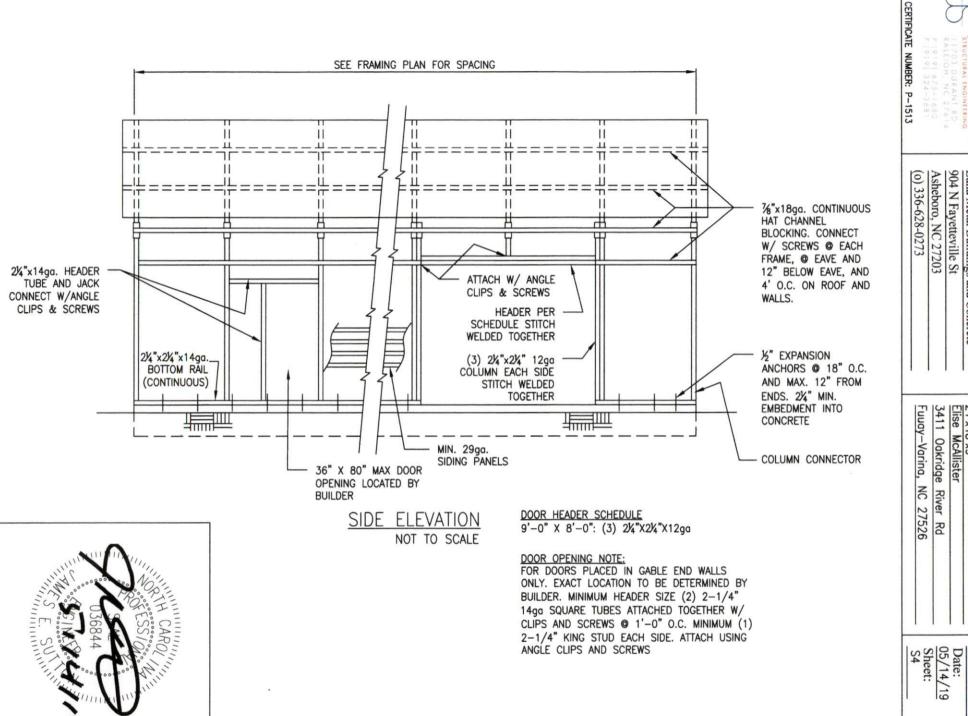
Luna Metal Buildings and Concrete 904 N Fayetteville St Asheboro, NC 27203 (o) 336-628-0273

Project: 24'x48'x9' Elise McAllister 3411 Oakridge River Rd

Fuuay-Varina, NC 27526

Date: 05/14/19 Sheet: S3

Job No: 1901-670



Luna Metal Buildings and Concrete 904 N Fayetteville St Asheboro, NC 27203

24'x48'x9' Elise McAllister

Job No: 1901-670



CERTIFICATE NUMBER: P-1513

DECICAL CRITERIA

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Luna Metal Buildings and Concrete

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Job No: 1901–670 Date: 05/14/19 Sheet: S5

## NOTES

1. BUILDING CODE2018 NORTH CAROLINA BUILDING CODE
2. IMPORTANCE FACTORS SNOW (Is) 0.80 SEISMIC (Iw) 1.0
3. GROUND SNOW LOAD15 PSF
4. ROOF LL20 PSF
5. WIND A) ULTIMATE WIND SPEED (IBC)
SEISMIC     A) SEISMIC DESIGN CATEGORY A     COMPLIANCE WITH SECTION 1616.4 ONLY?YES _X_NO
B) SEISMIC DESIGN CATEGORYBCX_D
SEISMIC USE GROUP
ANALYSIS PROCEDURE X SIMPLIFIEDEQUIVALENT LATERAL FORCEMODAL ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED?NO LATERAL DESIGN CONTROL: EARTHQUAKE WIND_X .

## OTHER NOTES

- PRESUMPTIVE SOIL PRESSURE = 1,500 PSF.
- WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
- 3. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER
- 4. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES OR SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN, AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER.
- GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO THE STRUCTURE DURING CONSTRUCTION PROCEDURES ASSOCIATED WITH THIS PROJECT.
- 6. CONCRETE: CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI.
- CONCRETE WORK SHALL COMPLY WITH ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301)
  AND APPLICABLE PROVISIONS OF ACI 318. KEEP A COPY OF ACI FIELD REFERENCE MANUAL (ACI-SP-15) WHICH
  INCLUDES ACI 301 AND OTHER ACI AND ASTM REFERENCES ON THE JOB.
- 8. ALL FOOTING FOUNDATIONS SHALL BE PLACED ON COMPETENT SOIL.
- 9. FIBER MESH MAY BE SUBSTITUTED FOR WWM PER MANUFACTURER'S RECOMMENDATIONS.
- REINFORCING STEEL: ASTM A615, GRADE 60. PROVIDE 3" CLEARANCE TO EARTH SURFACES. LAP BARS 30 DIAMETERS.
- ALL GALVANIZING SHALL BE PERFORMED AFTER FABRICATION, AND IN ACCORDANCE WITH ASTM A123 AND/OR A153.
- THE MINIMUM YIELD STRENGTH OF THE STEEL USED IN THE LIGHT GAUGE METAL FRAMES SHALL BE 55,000 PSI, FOR RAW OR GALVANIZED TUBES.
- THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER THREE SPANS, MINIMUM.
- 14. THE LIGHT GAUGE METAL FRAMES AND DECK SHALL BE OF THE GAUGE INDICATED ON THE PLAN/DETAILS.
- 15. ALL SCREWS FOR ASSEMBLING FRAMES SHALL BE #12 SIZE.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
- 17. ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING.

