



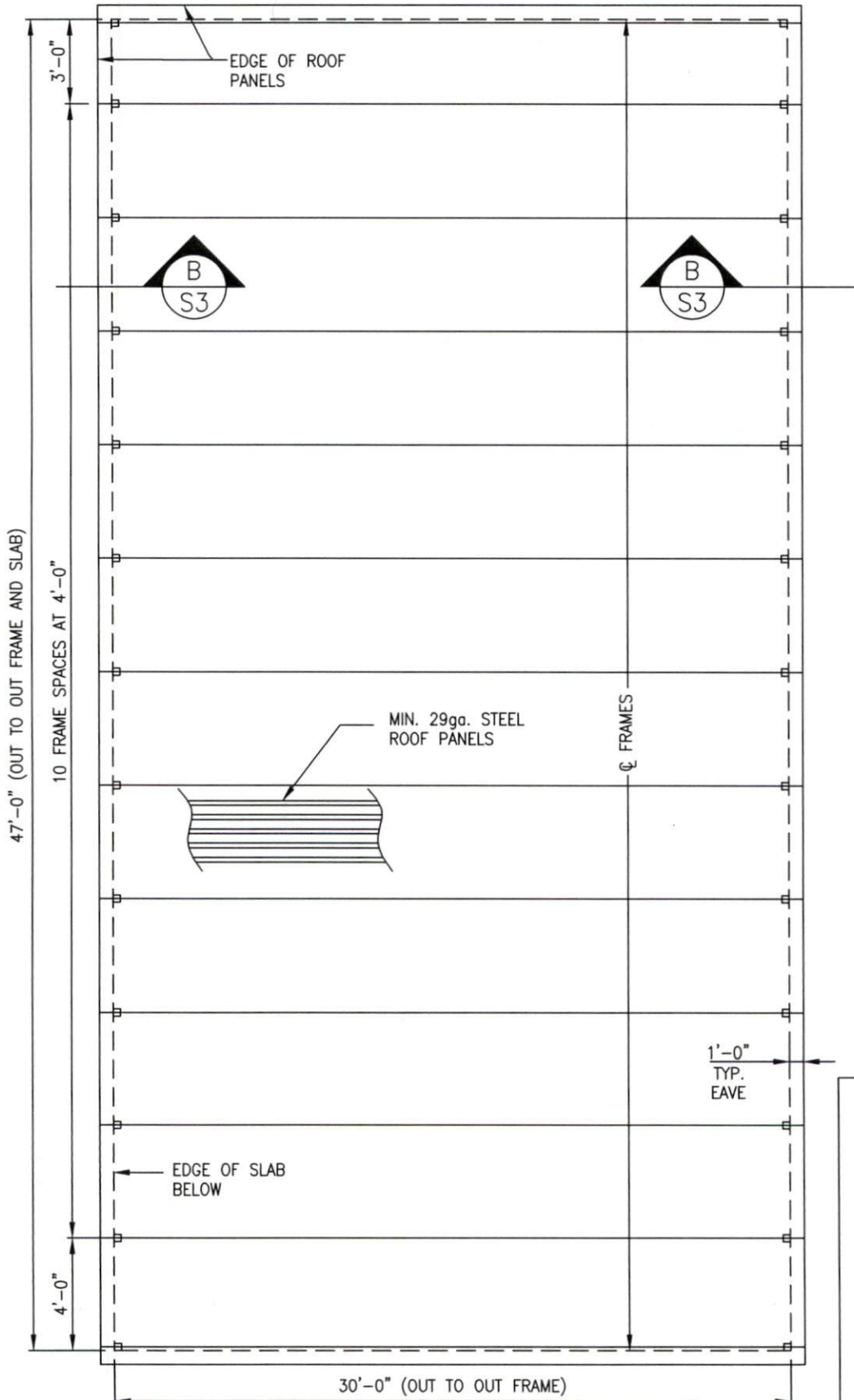
JS CONSULTING & DESIGN
ENGINEERING AND CONSULTING
11703 DURANT RD
RALEIGH, NC 27614
P (919) 675-1680
F (919) 324-3681

CERTIFICATE NUMBER: P-1513

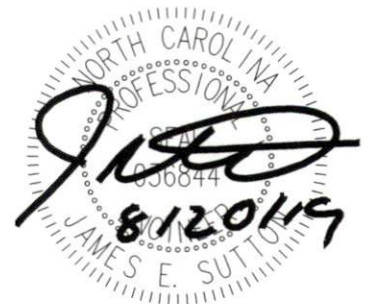
Client:
Luna Metal Buildings and Concrete
904 N Fayetteville St
Asheboro, NC 27203
(o) 336-628-0273

Project:
30'x48'x12'
Ethan Ray
11858 NC Hwy 210 S
Spring Lake, NC 28390

Job No:
1901-1110
Date:
08/20/19
Sheet:
S2



FRAMING PLAN
NOT TO SCALE





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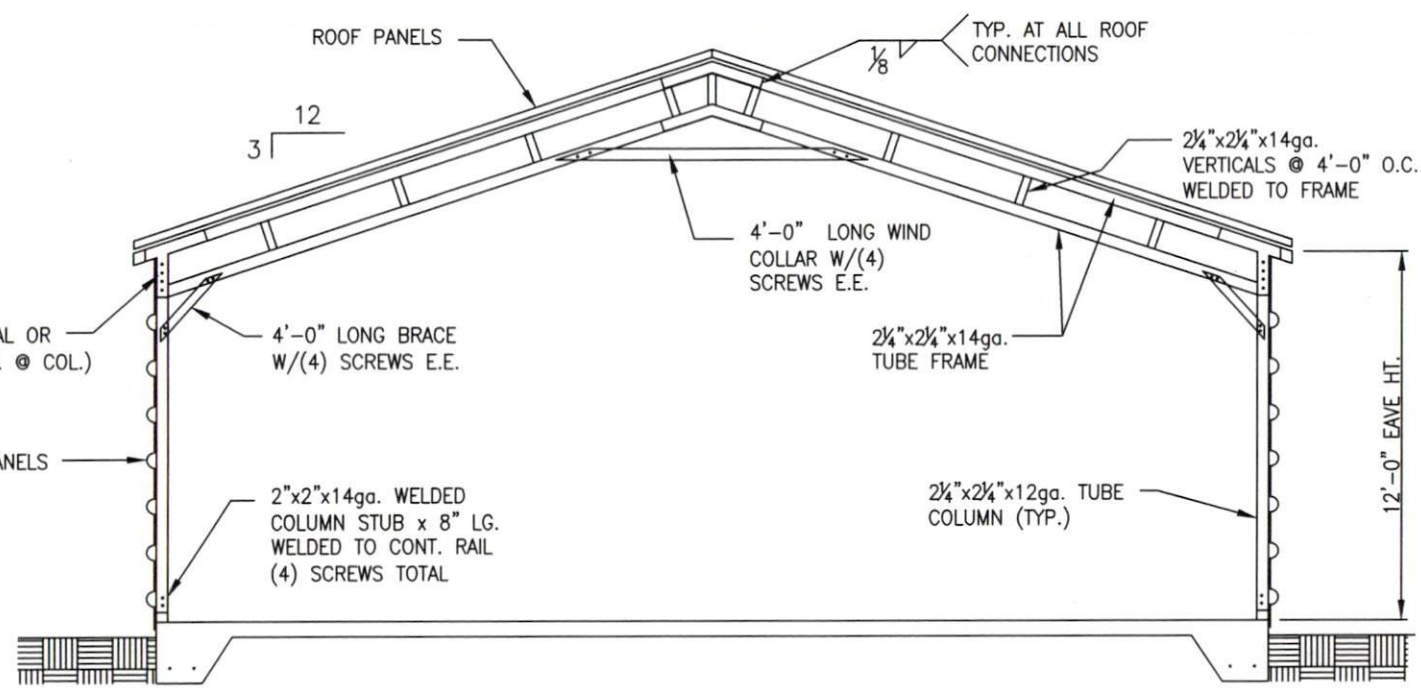
904 N Fayetteville St
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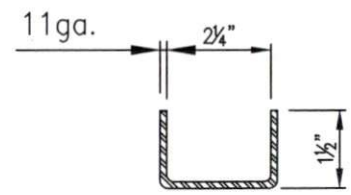
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 Ethon Roy
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 Spring Lake, NC 28390

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 S3



TYPICAL CROSS SECTION B-B
 NOT TO SCALE



TYP. WIND COLLAR/BRACE
 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.

James E. Sutto
 ENGINEER
 6122019
 NORTH CAROLINA PROFESSIONAL ENGINEER
 750644



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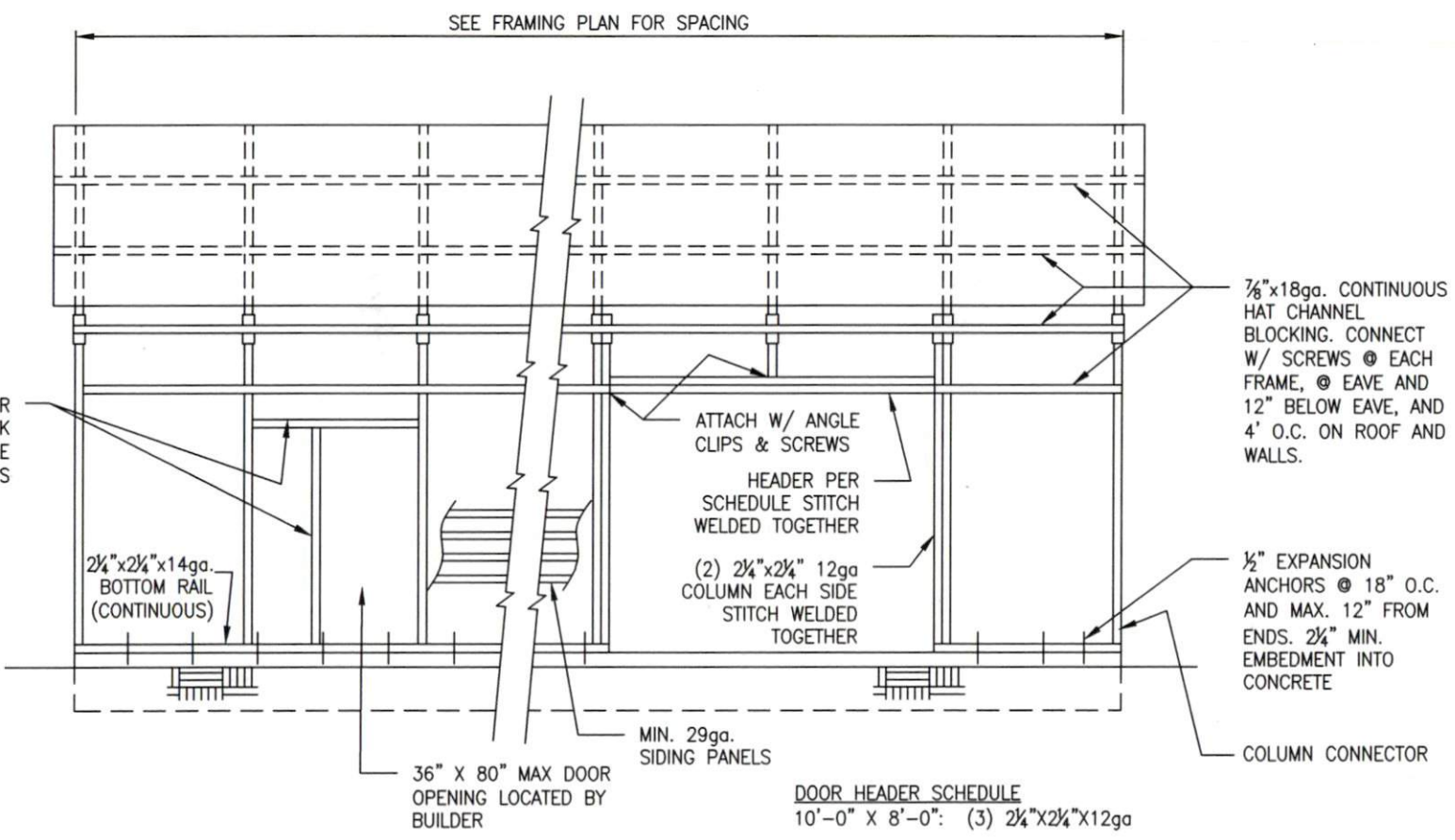
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SIDE ELEVATION
 NOT TO SCALE

DOOR HEADER SCHEDULE
 10'-0" X 8'-0": (3) 2 1/4" X 2 1/4" X 12ga

DOOR OPENING NOTE:
 FOR DOORS PLACED IN GABLE END WALLS ONLY. EXACT LOCATION TO BE DETERMINED BY BUILDER. MINIMUM HEADER SIZE (2) 2-1/4" 14ga SQUARE TUBES ATTACHED TOGETHER W/ CLIPS AND SCREWS @ 1'-0" O.C. MINIMUM (1) 2-1/4" KING STUD EACH SIDE. ATTACH USING ANGLE CLIPS AND SCREWS





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NOTES

DESIGN CRITERIA

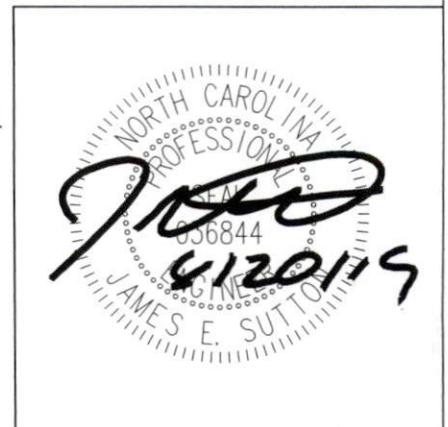
1. BUILDING CODE.....2018 NORTH CAROLINA BUILDING CODE
2. IMPORTANCE FACTORS SNOW (Is) 0.80
SEISMIC (Iw) 1.0
3. GROUND SNOW LOAD.....10 PSF
4. ROOF LL.....5 PSF (NO FOOT TRAFFIC)
5. WIND
 - A) ULTIMATE WIND SPEED (IBC)120 MPH
 - B) NOMINAL WIND SPEED (ASCE 7-10)93 MPH
 - C) WIND HAZARD EXPOSURE CATEGORY.....B
 - D) WIND BASE SHEARS (for MWFRS) Vx = 2.4 k Vy = 2.4 k (PER FRAME)
6. SEISMIC
 - A) SEISMIC DESIGN CATEGORY A
COMPLIANCE WITH SECTION 1616.4 ONLY? ___YES ___X_NO
 - B) SEISMIC DESIGN CATEGORY ___B ___C ___X_D

SEISMIC USE GROUP 1
SPECTRAL RESPONSE ACCELERATION Ss 19.6 %g S1 7.3 %g
SITE CLASSIFICATION D FIELD TEST ___X_PRESUMPTIVE ___HISTORICAL DATA
BASIC STRUCTURAL SYSTEM (CHECK ONE)
___BEARING WALL ___DUAL W/SPECIAL MOMENT FRAME
___BUILDING FRAME ___DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL
___X_MOMENT FRAME ___INVERTED PENDULUM
SEISMIC BASE SHEAR Vx = 0.5 k Vy = 0.5 k (PER FRAME)

ANALYSIS PROCEDURE ___X_SIMPLIFIED ___EQUIVALENT LATERAL FORCE ___MODAL
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? ___NO
LATERAL DESIGN CONTROL: EARTHQUAKE ___ WIND ___X_

OTHER NOTES

1. PRESUMPTIVE SOIL PRESSURE = 1,500 PSF.
2. 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 IMMEDIATELY.
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.
5. 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.
7. 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.
10. REINFORCING STEEL: ASTM A615, GRADE 60. PROVIDE 3" CLEARANCE TO EARTH SURFACES. LAP BARS 30 DIAMETERS.
11. ALL GALVANIZING SHALL BE PERFORMED AFTER FABRICATION, AND IN ACCORDANCE WITH ASTM A123 AND/OR A153.
12. THE MINIMUM YIELD STRENGTH OF THE STEEL USED IN THE LIGHT GAUGE METAL FRAMES SHALL BE 55,000 PSI, FOR RAW OR GALVANIZED TUBES.
13. 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.
16. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
17. ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING.



STATE OF NORTH CAROLINA
County of Harnett
Inspections Department

**OWNER EXEMPTION AFFIDAVIT
PURSUANT TO G.S. 87-14(a)(1)**

Address and Parcel Identification of Real Property Where Building is to be Constructed or Altered:

I, _____
(Print Full Name)

hereby claim an exemption from licensure under G.S. 87-1(b)(2) by initialing the relevant provision in paragraph 1 and initialing paragraphs 2-5 below and attesting to the following:

1. _____ I certify that I am the owner of the property set forth above on which this building is to be constructed or altered;

OR

_____ I am legally authorized to act on behalf of the firm or corporation which is constructing or altering this building on the property owned by the firm or corporation as set forth above (name of firm or corporation: _____);

2. _____ I will personally superintend and manage all aspects of the construction or alteration of the building and that duty will not be delegated to any person not duly licensed under the terms of Article 1 of Chapter 87 of the General Statutes of North Carolina;

3. _____ I will be personally present for all inspections required by the North Carolina State Building Code, unless the plans for the construction or alteration of the building were drawn and sealed by an architect licensed pursuant to Chapter 83A of the General Statutes of North Carolina;

4. _____ I understand that a copy of this AFFIDAVIT will be transmitted to the North Carolina Licensing Board for General Contractors for verification that I am validly entitled to claim an exemption under G.S. 87-1(b)(2) for the building construction or alteration specified herein. I further understand that, if the North Carolina Licensing Board for General Contractors determines that I was not entitled to claim this exemption, the building permit issued for the building construction or alteration specified herein shall be revoked pursuant to G.S. 153A-362 or G.S. 160A-422.

5. _____ The building will be solely occupied by the owner(s), firm or corporation as set forth above for at least twelve (12) months following completion.

This AFFIDAVIT applies to the following trades:
6. Building Electrical Mechanical Plumbing

7. The total cost of this project is \$_____.

(Signature of Affiant) Date

Sworn to (or affirmed) and Subscribed before me this the ____ day of _____, 20__.

Signature of Notary Public

Printed Name of Notary Public

My Commission Expires: _____

(Notary Stamp or Seal)

(NOTE: It is a class F felony to willfully commit perjury in any affidavit taken pursuant to law - G.S. 14-209)