

Mark Blanton 2251 Bastist Grove Rd. Fuquay Varina, NC 27526

STRUCTURAL DESIGN

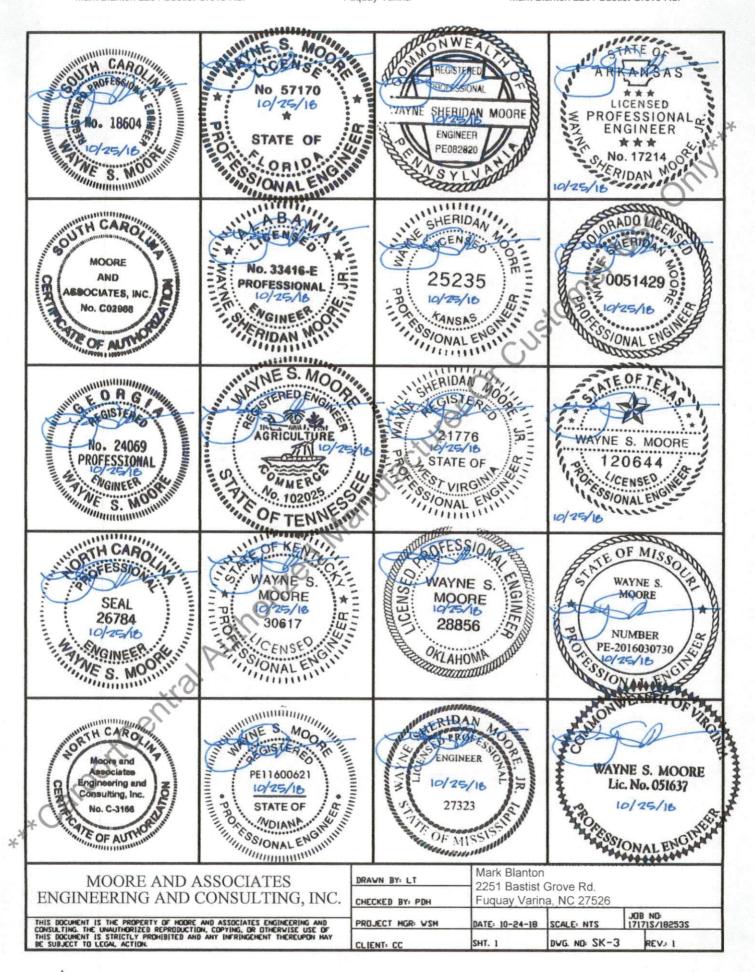
ENCLOSED BUILDING

MAXIMUM 30'- 0" WIDE X 16'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

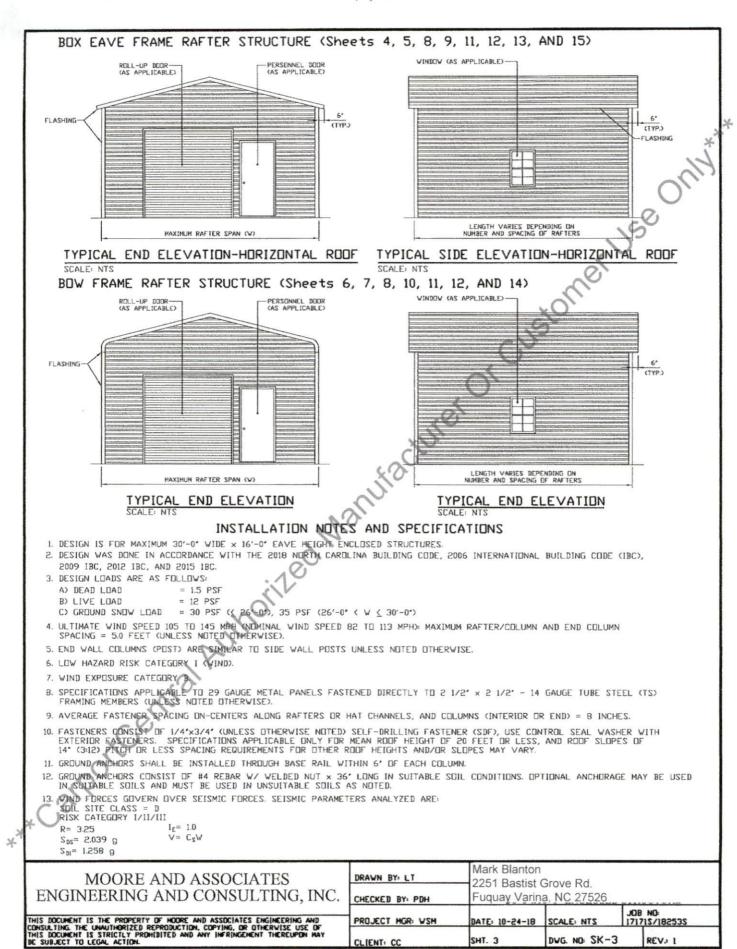
> 24 October 2018- @ Revision 1 M&A Project No. 17171S/18253S

> > Prepared for:





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WAYNE SHERIDAN MOORE = License No. 40931	•				Orly*
OF MARI B S. MOO 10 10/25/18	Professional Certificate I hereby certify that thes documents were prepare approved by me, and the a duly licensed profession engineer under the laws the State of Maryland, License No. 49744, Expiration Date 5/5/	se red dr nat I am onal s of	Cuc	oner	5°
WAYNE 10 SOONAL ENGINEERS OF THE STATE OF TH	Expiration Date 6/8/	andiacturer	O'		
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*CarportCentro					
MOORE AND A		DRAWN BY: LT	Mark Blanton 2251 Bastist C		
ENGINEERING AND (CHECKED BY: PDH	Fuquay Varina		JOB NO:
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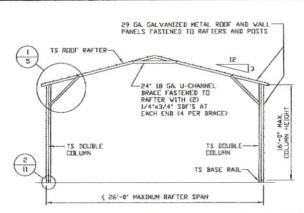


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REV. 1

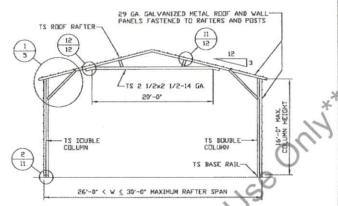
DVG. NO: SK-3

SHT. 3



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

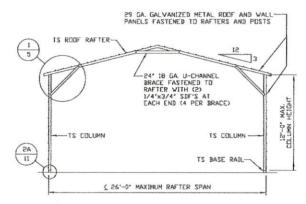


TYPICAL RAFTER/COLUMN END FRAME SECTION

29 GA. GALVANIZED METAL ROOF AND WALL-PANELS FASTENED TO RAFTERS AND POSTS

SCALE: NTS

TS ROOF RAFTER



TS 2 1/2x2 1/2-14 GA.

20'-0'

TS EDILUMN

TS EDILUMN

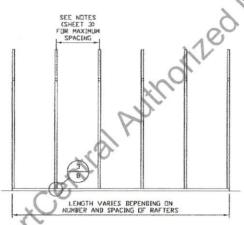
TS BASE RAIL

26'-0' < V \(\) 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

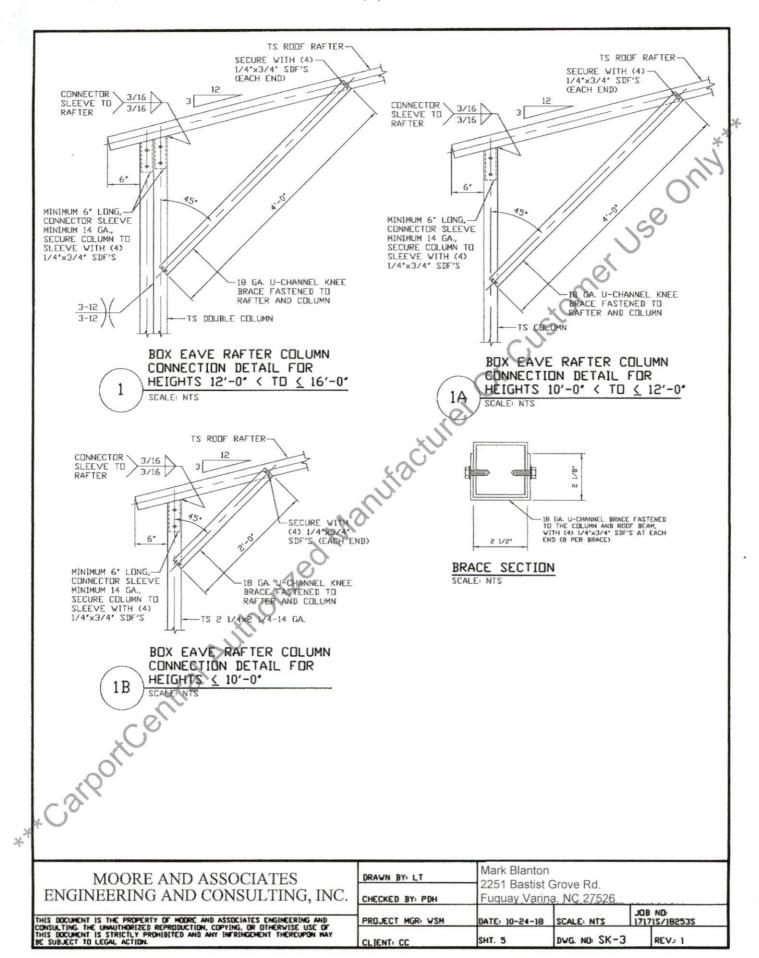
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BE SUBJECT TO L	531E5 7415 7411 (14 H)	inderent inches on him

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BASE RAIL ANCHORAGE OPTIONS INSTALL 1/2'x6' EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN WWF OR FIBERGLASS FIBERS REINF VARI GRADE 1,-0, WINIMUM 5 1/5 EMBEDMENT (TYP.) MONDLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS 1'-0" VARIES

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4".

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2' ELSEWHERE.

REINFORCING STEEL:

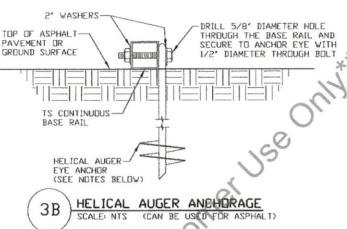
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRI MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

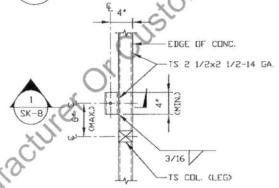
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- REINFORCEMENT IS BENT COLD.
 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT.

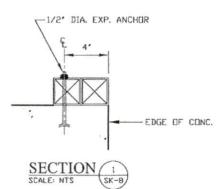
HELICAL AUGER ANCHOR NOTES:

- L FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRECOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- FOR LODGE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ACCUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBLOMENT.
- 5 FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.





TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

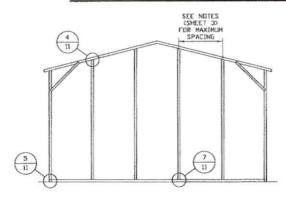


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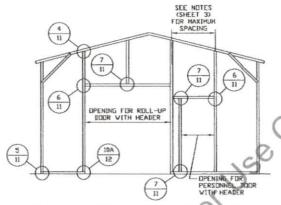
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PROJECT HGR: VSH	DATE: 10-24-18	SCALE: NTS		ND= 71\$/182535
CLIENT: CC	SHT. 8	DVG. NO: SK-	3	REV. 1

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



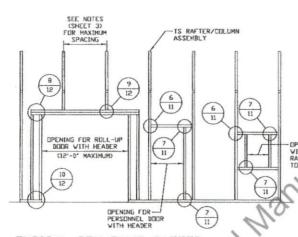
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

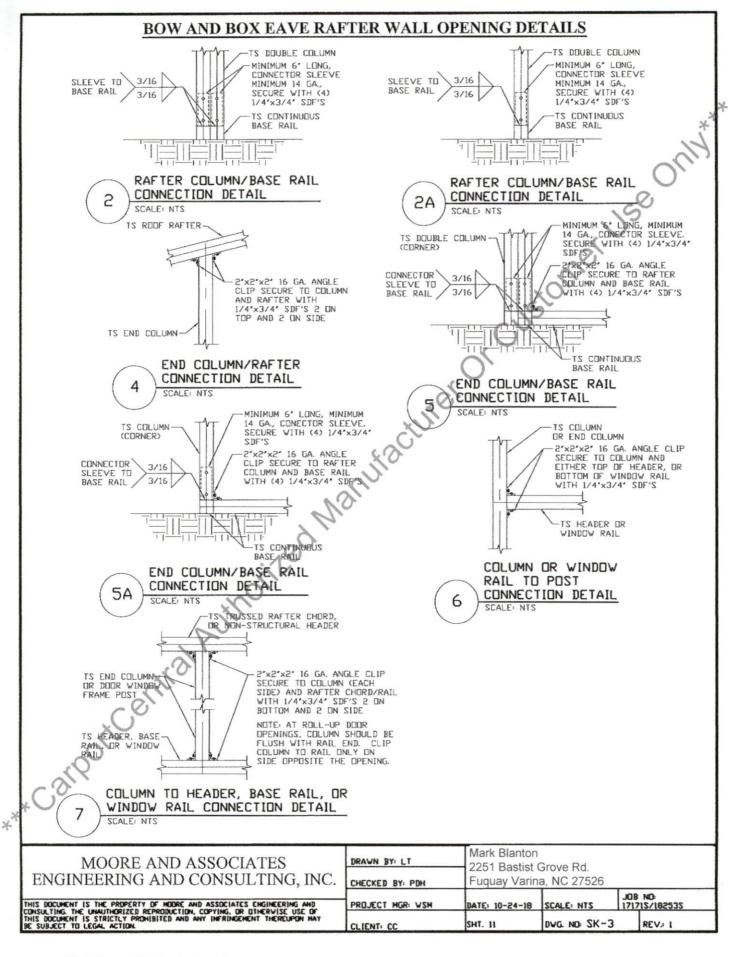


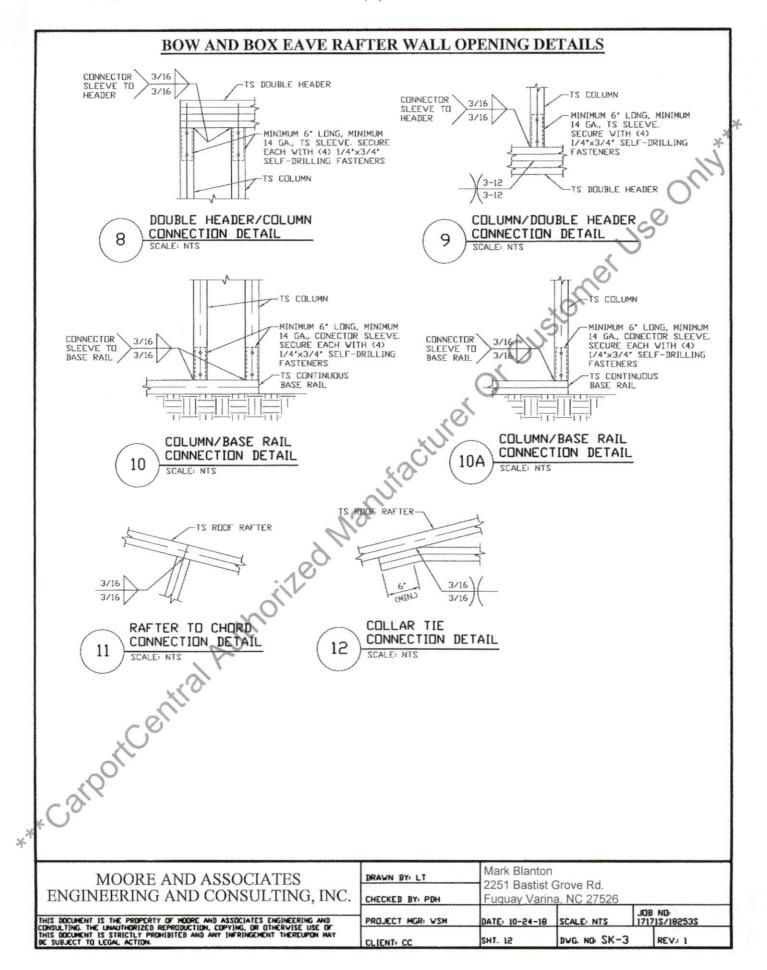
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION *CarportCentral Author

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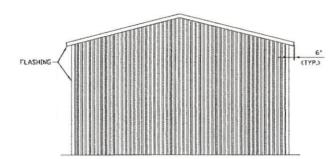
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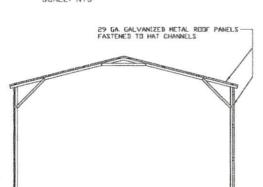


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BOX EAVE RAFTER VERTICAL ROOF OPTION

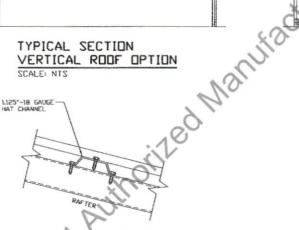


TYPICAL END ELEVATION VERTICAL ROOF



TYPICAL SECTION VERTICAL ROOF OPTION

SCALE: NTS

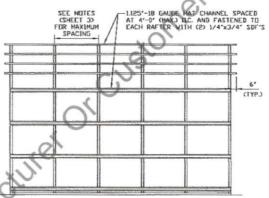


ROOF PANEL ATTACHMENT (ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

FLASHING

TYPICAL SIDE ELEVATION VERTICAL ROOF

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF OPTION

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Front and Left Side, Small entry door on front facing the street.



Right Side double doors. Street side is to the left.

Howerton Services, PLLC License # P-1716 3513 Cathedral Bell Road Raleigh, NC 27614 (919) 270-3460

June 13, 2019

Subject: Blanton Residence

2251 Baptist Grove Road Fuquay Varina, NC 27526

Detached Metal Building Slab Design

The proposed Detached Metal Building will be 26' x 38'. The engineered metal building will be constructed on 3000 psi 6" monolithic concrete slab with a thickened footing on the perimeter under all 4 walls. The thickened footing will be 12" wide by 12" deep. Place 6x6 welded wire fabric in the slab. Place 2 - #4 bars continuously in the thickened perimeter footing. Anchor the metal bottom plate with $\frac{1}{2}$ " x 6" anchors bolts within 6" of each column.

The slab and footings meet all the requirements of the 2018 North Carolina Building Code for Residences.



06 13 2019

Signature Certificate





Joel S. Howerton

13 Jun 2019, 22:00:19, EDT

Completion Date:

gul S. Hant

13 Jun 2019, 22:02:04, EDT

Document Details:

Name:

Blanton Residence Metal Building Slab Design Letter

Type:

Document Ref: 75698efa66743c6209bcec28e2d1b49ba6b7333febf881dcd24a

99296396b290

Document Total Pages:

Document Signed By:

Name:

Joel S. Howerton

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Document History:

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Signed By Joel S. Howerton Joel S. Howerton signed this folder on 13 Jun 2019, 22:02:04, EDT

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Date	Description	Fee:
6/13/2019	Blanton Residence	\$250.00
	Detached Metal Building Slab Design Letter	
	PAID CK# 1011 \$250	
	PAND CKH 1011 \$250	/19
	Total:	\$250.00