

Columbia County New Building Permit Application

ck# 6-7400

For Office Use Only Application # 1907-46 Date Received 7/12/19 By MG Permit # 38377

Zoning Official 7c/UP Date 7-16-19 Flood Zone X Land Use Res Zoning ASF-1

FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner 7c Date 7-16-19

Comments Non Habitable Storage Bldg. Front 25' Sides 10' Rear 15'

☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Well Letter ☐ 911 Sheet ☐ Parent Parcel # _____

☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter

☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☒ App Fee Paid ☒ Sub VF Form

Septic Permit No. 19-0533 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Shuwei Bahr Phone 810-523-8962

Address 576 SW Broderick Dr. Lake City, FL 32025

Owners Name Michael + Shuwei Bahr Phone 810-523-8962

911 Address 576 SW Broderick Dr., Lake City, FL, 32025

Contractors Name owner builder Phone 810-523-8962

Address 576 SW Broderick Dr. Lake City, FL 32025

Contractor Email _____ ...clude to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address _____

Mortgage Lenders Name & Address _____

Circle the correct power company ☐ FL Power & Light ☒ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy

Property ID Number 18-45-17-08466-106 Estimated Construction Cost \$11,300.00

Subdivision Name Saddle of The South Estates Lot 6 Block _____ Unit _____ Phase _____

Driving Directions from a Major Road 47 S, (R) Broderick Dr, 2nd from end

Construction of RV/Carport Commercial OR ☒ Residential

Proposed Use/Occupancy Storage RV Number of Existing Dwellings on Property 1

Is the Building Fire Sprinkled? No If Yes, blueprints included _____ Or Explain _____

Circle Proposed ☐ Culvert Permit or ☐ Culvert Waiver or ☐ D.O.T. Permit or ☒ Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 80' Side 28' Side 180' Rear 80'

Number of Stories 1 Heated Floor Area _____ Total Floor Area 1440 Acreage _____

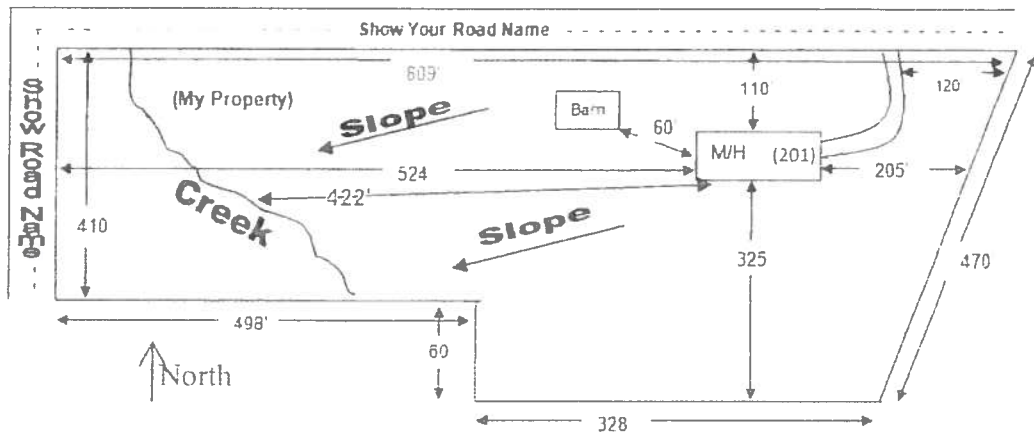
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

SITE PLAN CHECKLIST

- ___ 1) Property Dimensions
- ___ 2) Footprint of proposed and existing structures (including decks), label these with existing addresses
- ___ 3) Distance from structures to all property lines
- ___ 4) Location and size of easements
- ___ 5) Driveway path and distance at the entrance to the nearest property line
- ___ 6) Location and distance from any waters; sink holes; wetlands; and etc.
- ___ 7) Show slopes and or drainage paths
- ___ 8) Arrow showing North direction

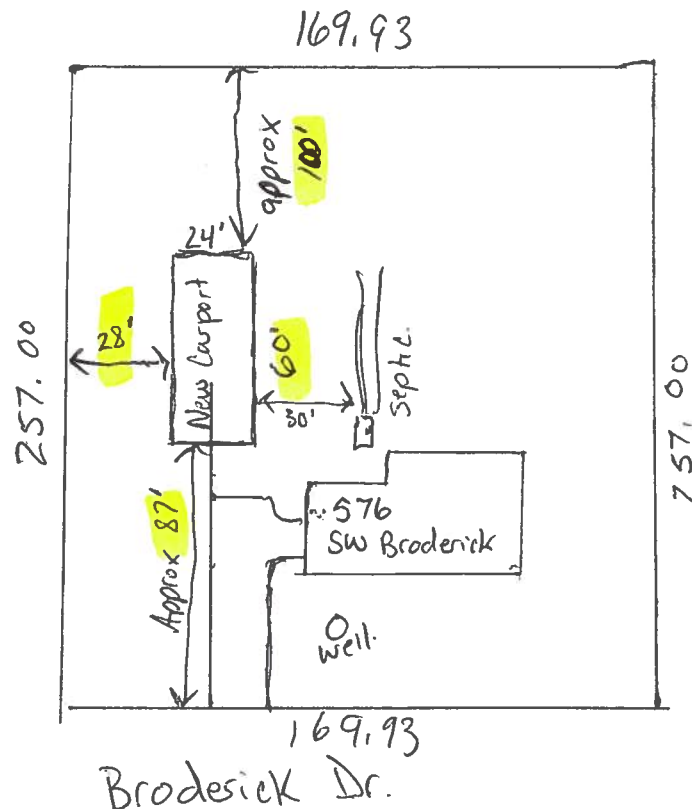
SITE PLAN EXAMPLE

Revised 7/1/15



NOTE:

This site plan can be copied and used with the 911 Addressing Dept. application forms.





STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 19-0533
DATE PAID: 7/12/19
FEE PAID: 121.80
RECEIPT #: 1723530

APPLICATION FOR:

☐ New System ☒ Existing System ☐ Holding Tank ☐ Innovative
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: Michael Bahr

AGENT: _____

TELEPHONE: 810-523-8962MAILING ADDRESS: 576 SW Broderick Dr., Lake City, FL, 32025

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105 (3) (m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 6 BLOCK: _____ SUBDIVISION: Saddle of the South Estates PLATTED: _____

PROPERTY ID #: 18-45-17-08466-106 ZONING: _____ I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 1 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ≤2000GPD ☐ >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? ☒ / N] DISTANCE TO SEWER: _____ FT

PROPERTY ADDRESS: 576 SW Broderick Dr., Lake City, FL, 32025DIRECTIONS TO PROPERTY: East of I75 on 47, 47 North to Broderick

BUILDING INFORMATION

☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	<u>Storage Building</u>	<u>0</u>	<u>1440</u>	
2				
3				
4				

☐ Floor/Equipment Drains ☐ Other (Specify) _____

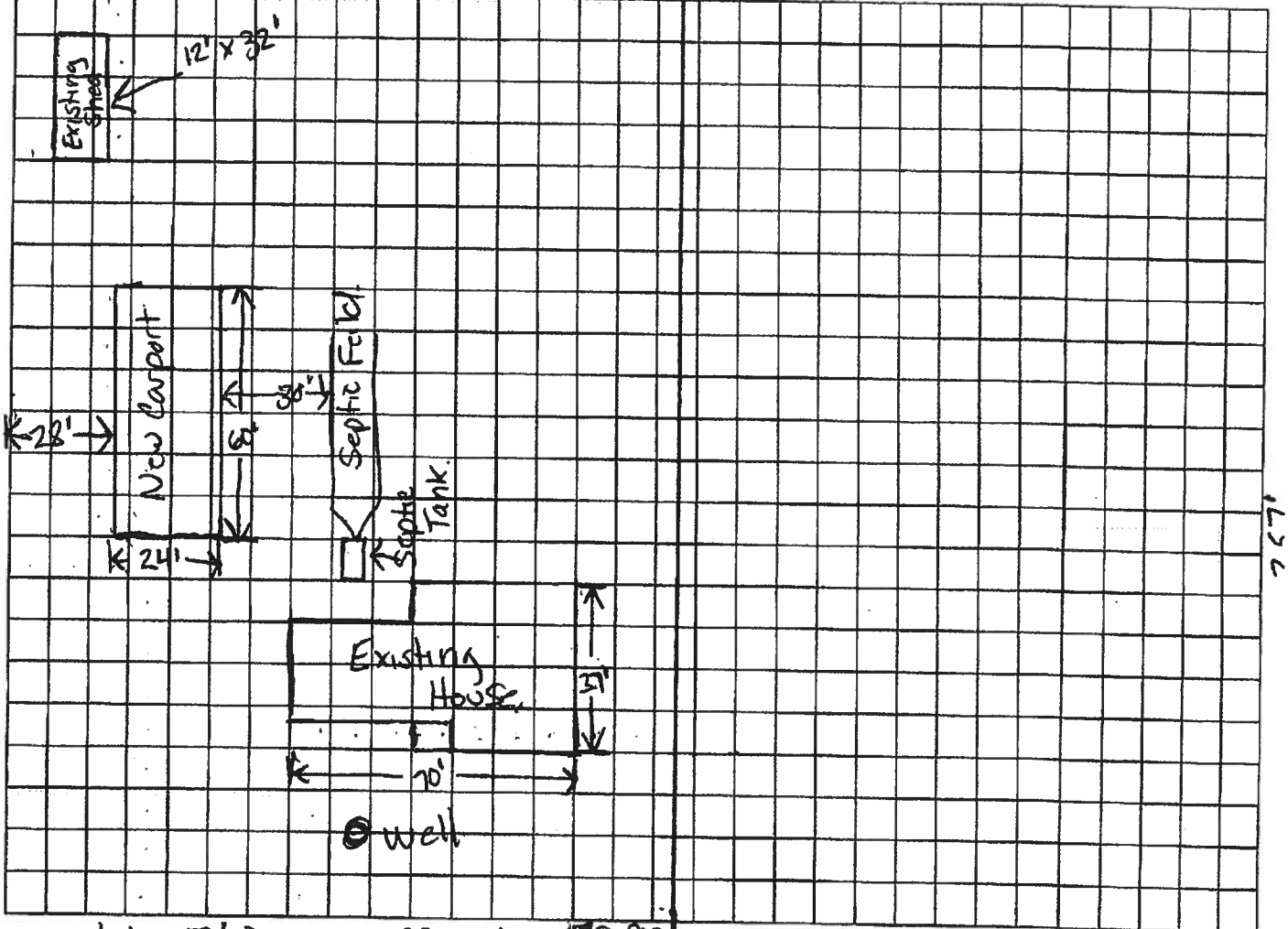
SIGNATURE: [Signature]DATE: 7/12/19

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 19-1533

----- PART II - SITEPLAN -----

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: Lot 257' Deep 169.93 Wide 169.93'

Adding New RV carport 28' From proper Line side, 80-90' from front and back. 30' from septic system.

Site Plan submitted by: Michael Bahr

TITLE

DATE: 7/12/19

Plan Approved ☒

Not Approved

Date 7/17/19

By [Signature]

EST Columbia

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Columbia County Building Permit Application

CODE: Florida Building Code 2017 and the 2014 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: **YOU ARE HEREBY NOTIFIED** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

Michael Bahr
Print Owners Name

[Signature]
Owners Signature

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Contractor's Signature

Contractor's License Number
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ day of _____ 20____.
Personally known ☐ or Produced Identification _____

SEAL:

State of Florida Notary Signature (For the Contractor)

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

18-45-08466-106

Clerk's Office Stamp

Inst: 201912015938 Date: 07/12/2019 Time: 11:34AM
Page 1 of 1 B: 1388 P: 1835, P. DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): Bahy
 - a) Street (job) Address: 576 SW Brodenick Dr
2. General description of improvements: RV store
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
 - a) Name and address: Michael Bahr 576 SW Brodenick Dr
 - b) Name and address of fee simple titleholder (if other than owner)
 - c) Interest in property
4. Contractor Information
 - a) Name and address: Owner Builder
 - b) Telephone No.:
5. Surety Information (if applicable, a copy of the payment bond is attached):
 - a) Name and address:
 - b) Amount of Bond:
 - c) Telephone No.:
6. Lender
 - a) Name and address:
 - b) Phone No.:
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
 - a) Name and address:
 - b) Telephone No.:
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
 - a) Name: _____ OF _____
 - b) Telephone No.:
9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10 Shummmmm
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Shu wei Bahr
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 12 day of July, 2019 by:

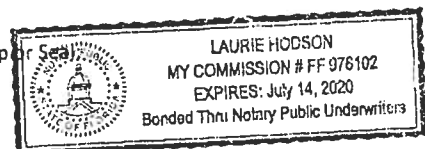
Sheweil Bahr as owner for Self
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known _____ OR Produced Identification ☒ Type Texas DL

Notary Signature

[Signature]

Notary Stamp or Seal



Columbia County Property Appraiser

Jeff Hampton

2018 Tax Roll Year

updated: 6/25/2019

Parcel: << **18-4S-17-08466-106** >>

Aerial Viewer Pictometry Google Maps

Owner & Property Info

Result: 2 of 2

Owner	BAHR MICHAEL & SHUWEI 576 SW BRODERICK DR LAKE CITY, FL 32025		
Site	576 BRODERICK DR, LAKE CITY		
Description*	LOT 6 SADDLE OF THE SOUTH ESTATES S/D. 751-2137, 802- 1441, 828-1884, WD 1020-588, WD 1093-1027, WD 1330-1042, WD 1378-2670		
Area	0 AC	S/T/R	18-4S-17
Use Code**	SINGLE FAM (000100)	Tax District	2

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.

**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2018 Certified Values		2019 Working Values	
Mkt Land (1)	\$14,996	Mkt Land (1)	\$14,996
Ag Land (0)	\$0	Ag Land (0)	\$0
Building (1)	\$106,792	Building (1)	\$116,117
XFOB (2)	\$4,803	XFOB (2)	\$4,803
Just	\$126,591	Just	\$135,916
Class	\$0	Class	\$0
Appraised	\$126,591	Appraised	\$135,916
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$126,591	Assessed	\$135,916
Exempt	\$0	Exempt	\$0
Total Taxable	county:\$126,591 city:\$126,591 other:\$126,591 school:\$126,591	Total Taxable	county:\$135,916 city:\$135,916 other:\$135,916 school:\$135,916

**▼ Sales History**

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
2/25/2019	\$174,900	1378/2670	WD	I	Q	01
1/27/2017	\$162,000	1330/1042	WD	I	Q	01
8/21/2006	\$195,000	1093/1027	WD	I	Q	
7/6/2004	\$140,000	1020/0588	WD	I	Q	
9/26/1996	\$13,000	828/1884	WD	V	Q	
3/3/1995	\$50,000	802/1441	WD	V	U	35

▼ Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SINGLE FAM (000100)	1997	1720	2440	\$116,117

*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1907-46 JOB NAME _____

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

NOTE: It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

Use website to confirm licenses: <http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx>

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

Violations will result in stop work orders and/or fines.

ELECTRICAL <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
MECHANICAL/ A/C <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
PLUMBING/ GAS <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
ROOFING <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SHEET METAL <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
FIRE SYSTEM/ SPRINKLER <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SOLAR <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
STATE SPECIALTY <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<u>Need</u> <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE



STRUCTURAL DESIGN

FULLY OPEN CARPORT BUILDING EXPOSURE B

MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT- BOX EAVE
FRAME AND BOW FRAME

20 February 2018

Revision 5

M&A Project No. 16022S/17300S/18028S

Prepared for:

Tubular Building Systems, LLC
631 SE Industrial Circle
Lake City, Florida 32025

Prepared by:

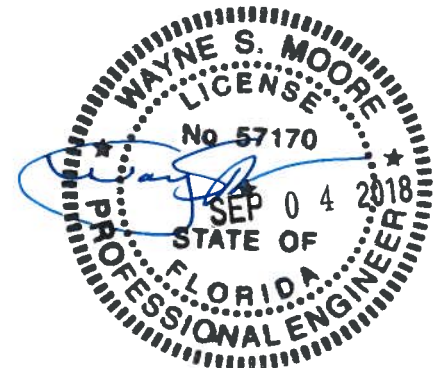
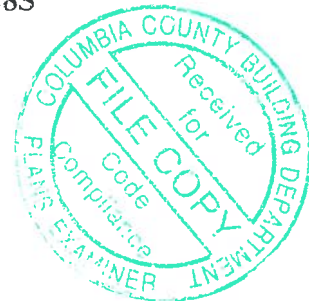
Moore and Associates Engineering and Consulting, Inc.

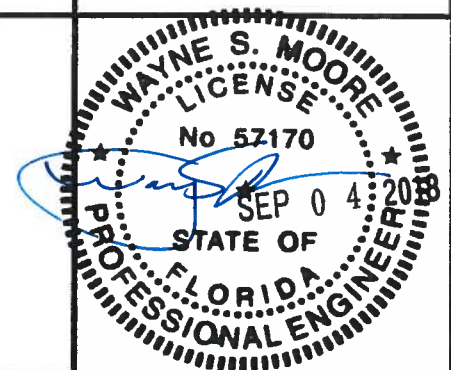
1009 East Avenue
North Augusta, SC 29841

401 S. Main Street, Suite 200
Mount Airy, NC 27030



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING





MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B
PE SEAL COVER SHEET

DATE: 2-20-18

SCALE: NTS

DWG. NO: SK-1

JOB NO:
16022S/17300S/18028S

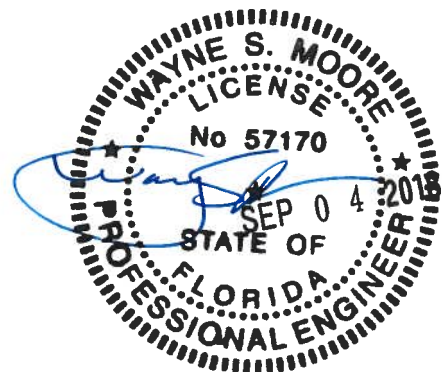
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REV: 5

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SHEET 6A	TYPICAL RAFTER COLUMN CONNECTION DETAILS (LACED COLUMN)
SHEET 6B	TYPICAL RAFTER COLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 6C	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 7	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOW RAFTER)
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SHEET 13	BOW RAFTER EXTRA SIDE PANEL OPTION
SHEET 14	BOX EAVE RAFTER VERTICAL ROOF OPTION
SHEET 15	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 16	LEAN-TO OPTIONS (BOW RAFTER)



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SCALE: NTS

DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

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SHT. 2

REV: 5

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR A MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT FULLY OPEN CARPORT
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC) AND 2015 IBC.
- 3 DESIGN LOADS ARE AS FOLLOWS
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 10 PSF
- 4 LOW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET.
5. HIGH ULTIMATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 40 FEET.
- 6 LOW HAZARD RISK CATEGORY I
- 7 WIND EXPOSURE CATEGORY B
- 8 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS, 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED)
- 9 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" OR END = 6", (MAX)
- 10 FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (3/12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
- 11 GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES
- 12 GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (< 108 MPH NOMINAL) WIND SPEEDS ONLY, OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USE IN UNSUITABLE SOILS AS NOTED.
- 13 OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE
 SOIL SITE CLASS = D
 RISK CATEGORY I/II/III
 $R = 3.25$ $I_e = 10$
 $S_{DS} = 1.522$ $V = C_s W$
 $S_{D1} = 0.839$



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SHT. 3

SCALE: NTS

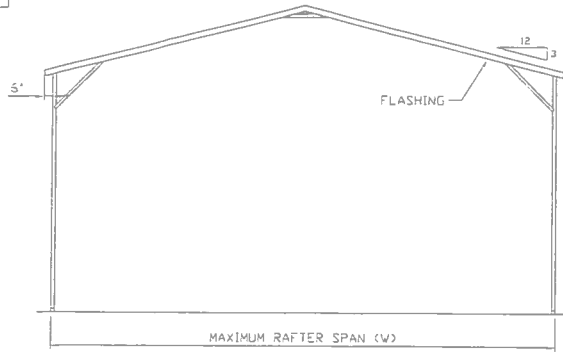
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**JOB NO:
16022S/17300S/18028S**

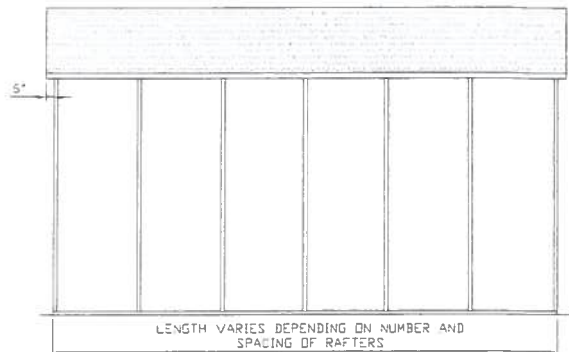
REV: 5

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☐ BOX EAVE FRAME RAFTER ENCLOSED BUILDING

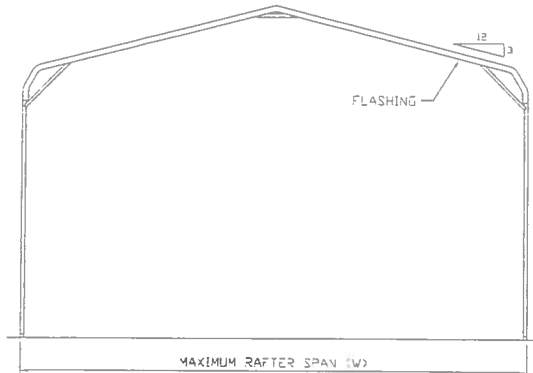


TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

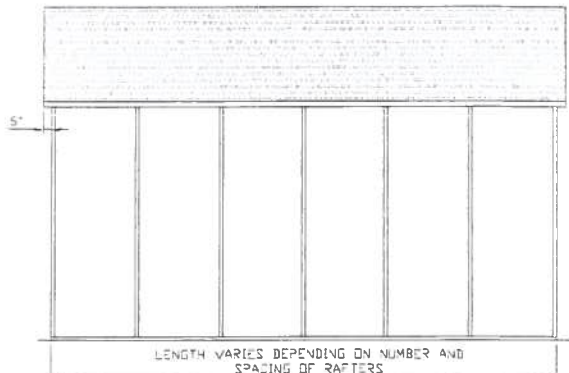


TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

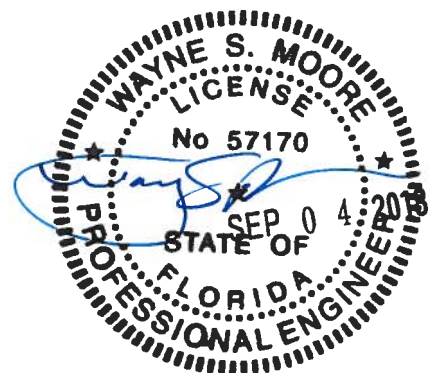
☐ BOW FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL SIDE ELEVATION
SCALE: NTS



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B

DATE: 2-20-18

SHT. 4

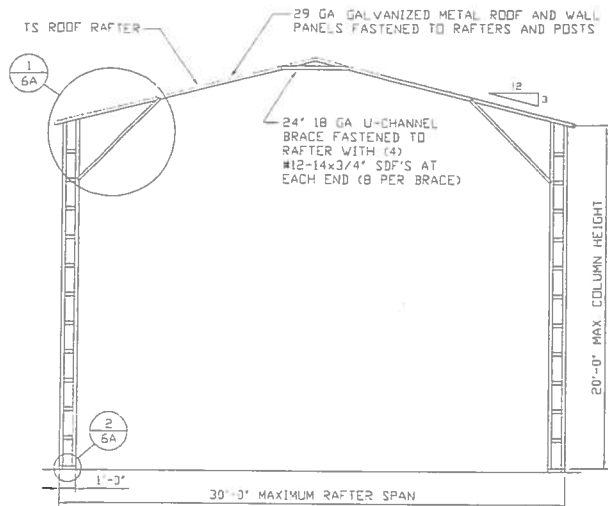
SCALE: NTS

DWG. NO: SK-1

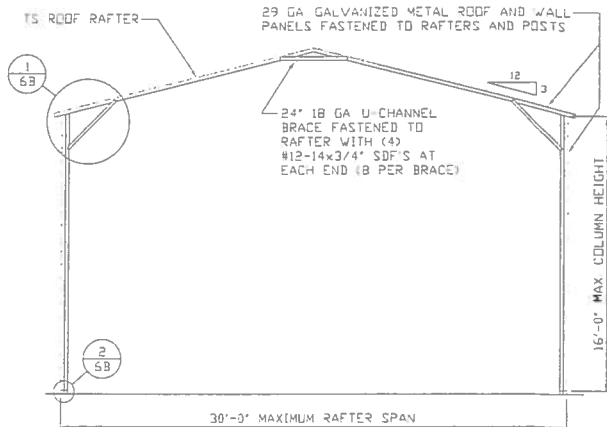
JOB NO:
16022S/17300S/18028S

REV.: 5

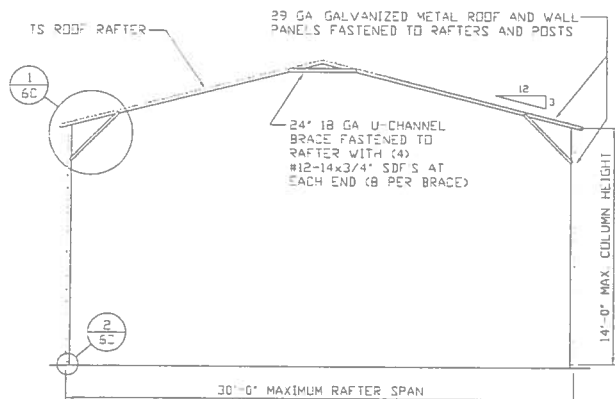
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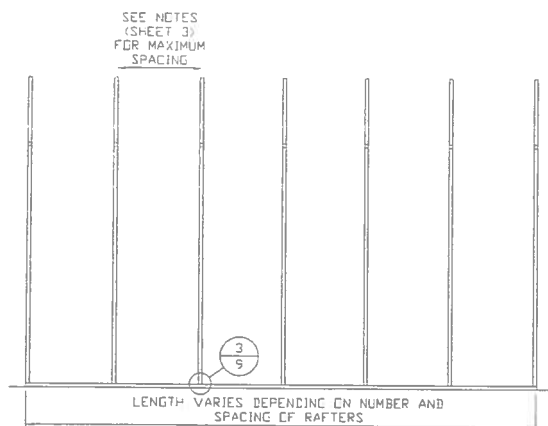
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



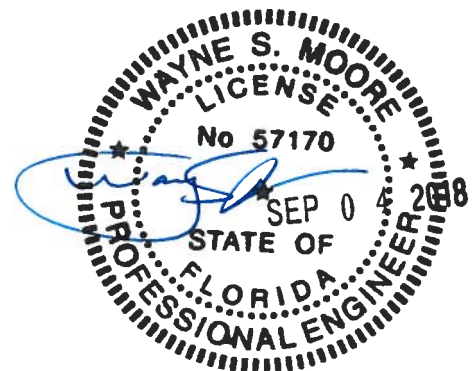
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SHT. 5

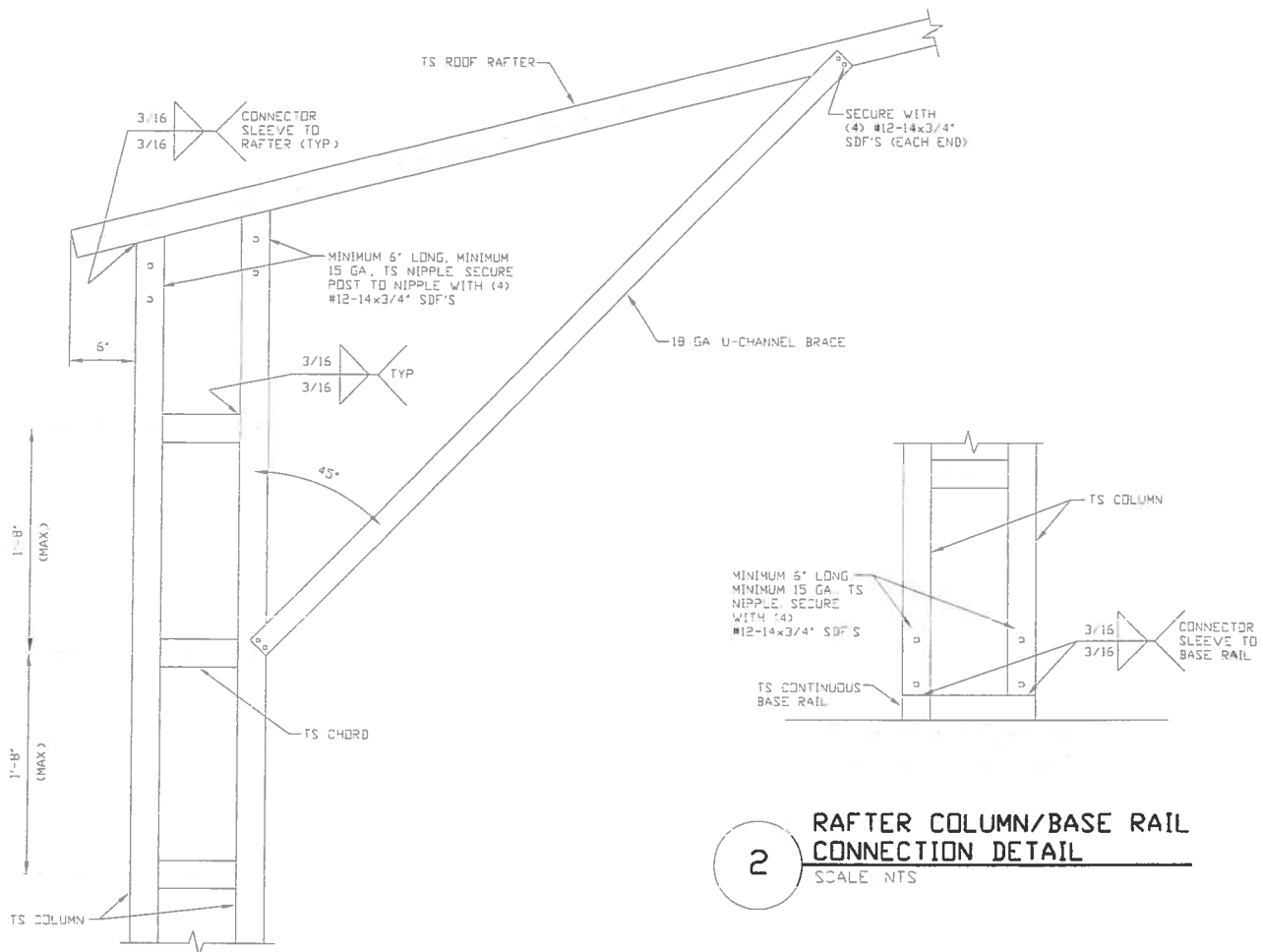
SCALE: NTS

DWG. NO: SK-1

**JOB NO:
16022S/17300S/18029S**

REV: 5

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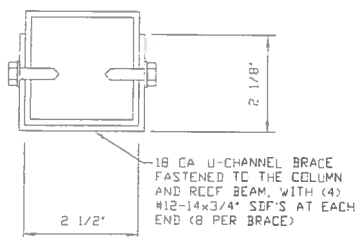


2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL

SCALE: NTS

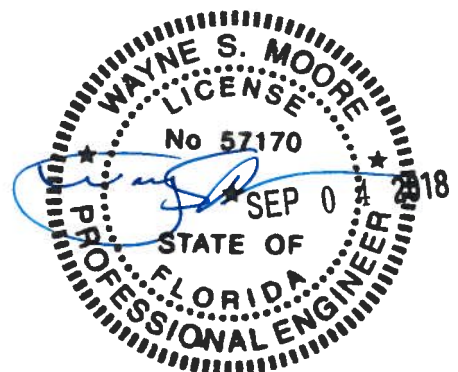
1 BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS



**MOORE AND ASSOCIATES
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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

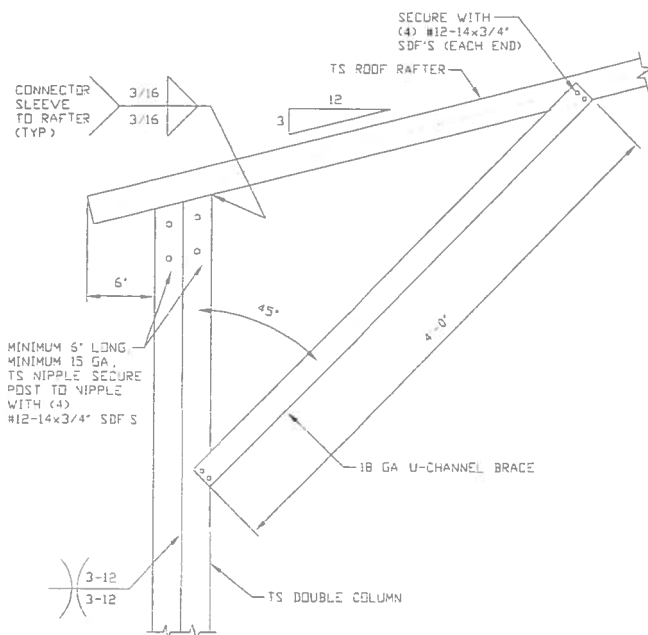
SCALE: NTS

DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

REV: 5

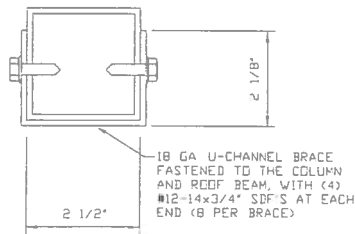
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**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"**

1

SCALE NTS

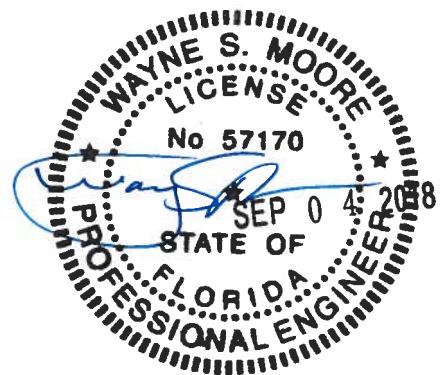


**2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL**

SCALE NTS

BRACE SECTION

SCALE NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SHT. 6B

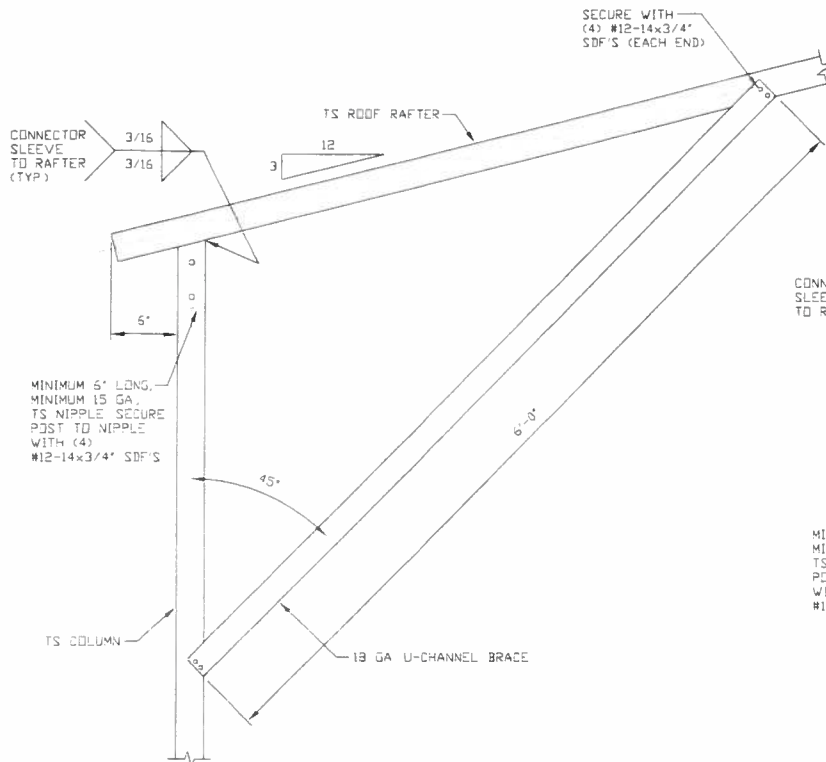
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DWG. NO: SK-1

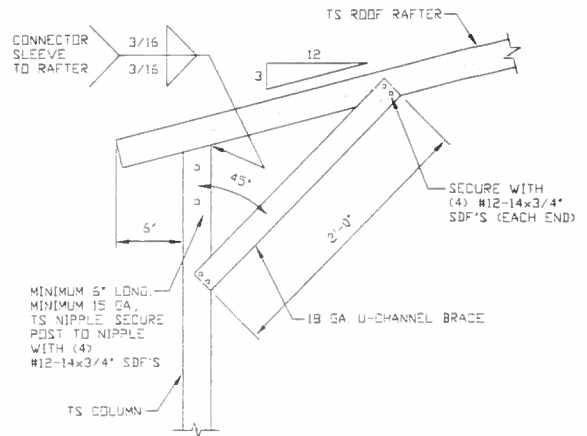
**JOB NO:
16022S/17300S/18028S**

REV: 5

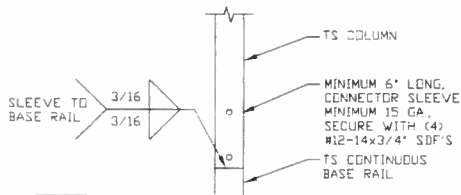
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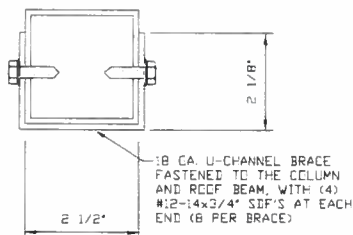
**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO < 14'-0"**
SCALE: NTS



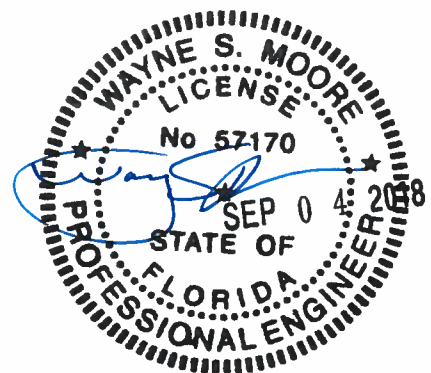
**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS < 12'-0"**
SCALE: NTS



**2
RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



BRACE SECTION
SCALE: NTS



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ENGINEERING AND CONSULTING, INC.**

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CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

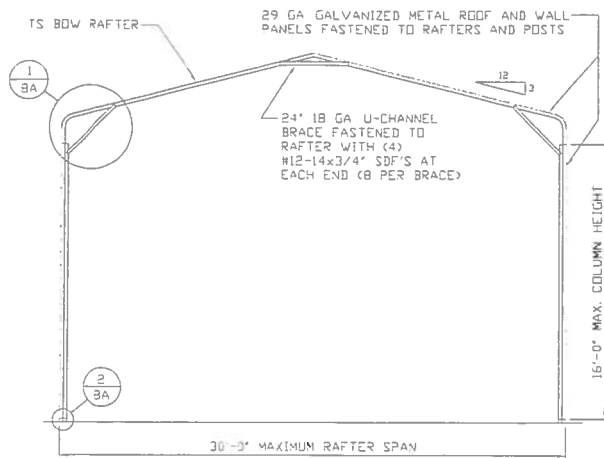
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DWG. NO: SK-1

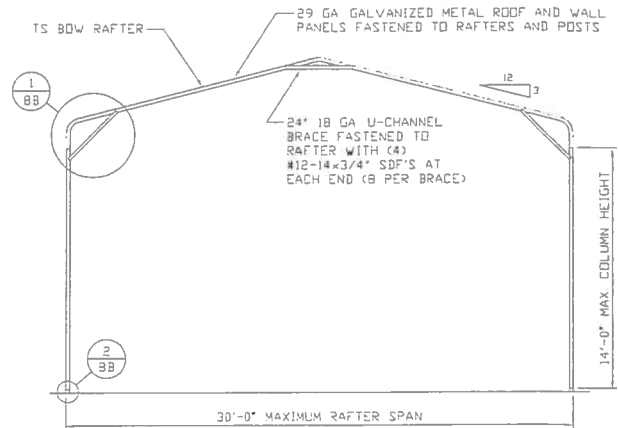
**JOB NO:
16022S/17300S/18028S**

REV: 5

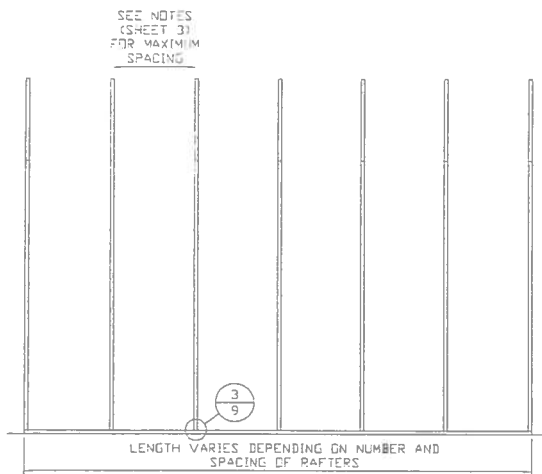
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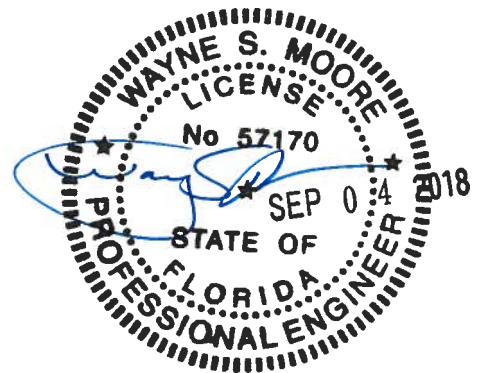
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS
30'-0"X20'-0" FULLY OPEN CARPORT EXP. B

DATE: 2-20-18

SHT. 7

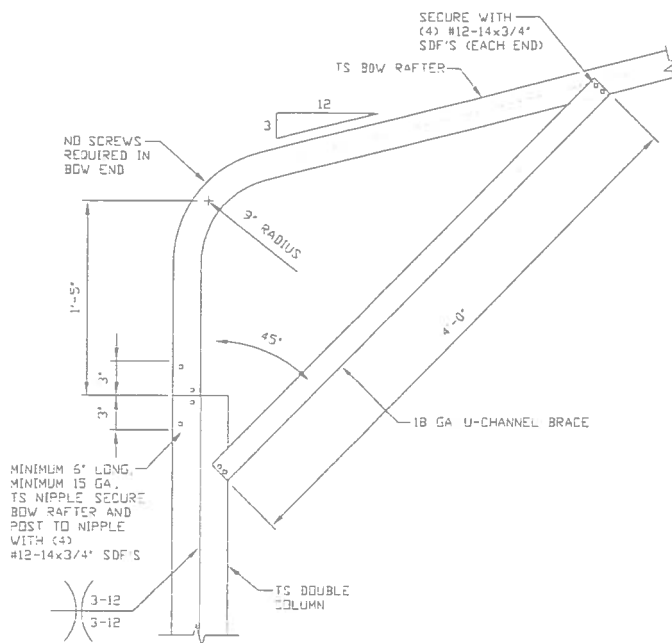
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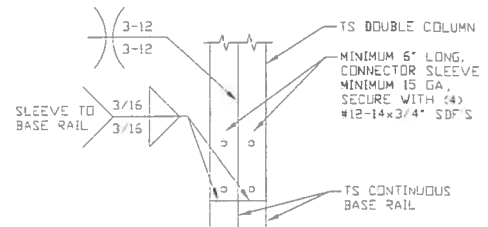
JOB NO:
16022S/17300S/18028S

REV: 5

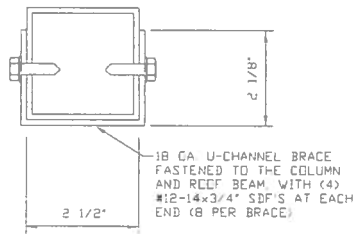
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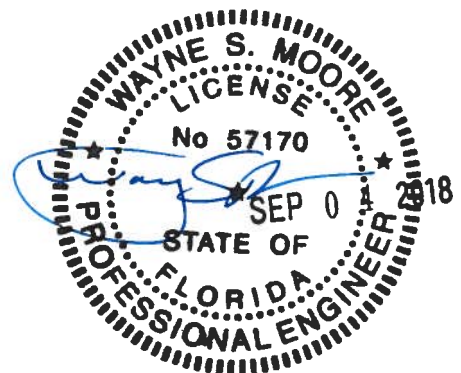
**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"**
SCALE NTS



**RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL**
SCALE NTS



BRACE SECTION
SCALE NTS



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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SHT. 8A

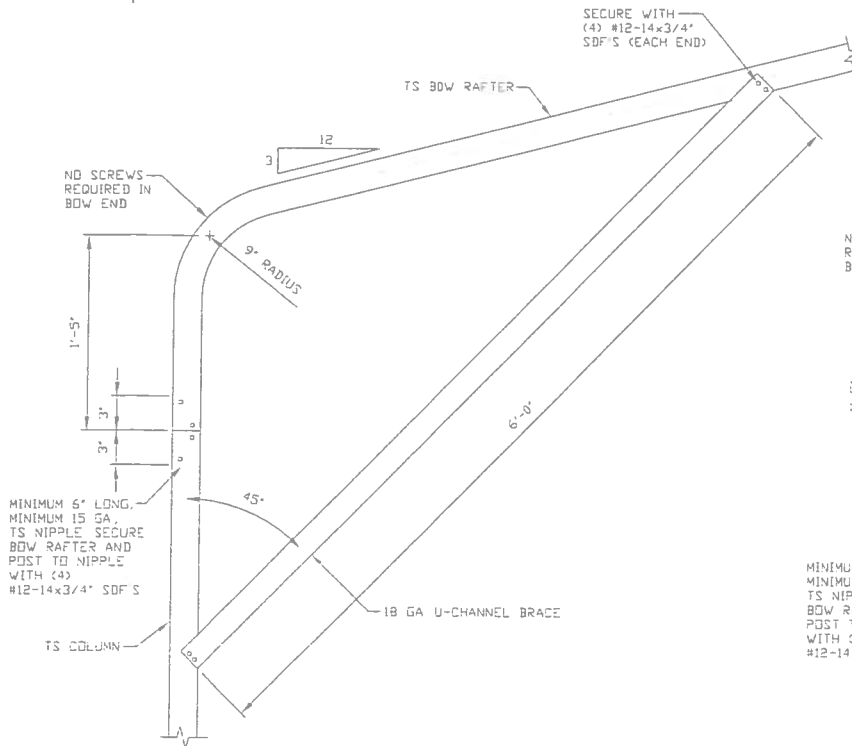
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DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

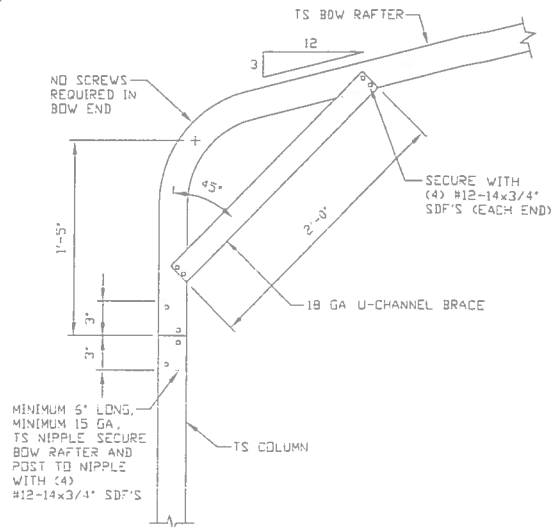
REV: 5

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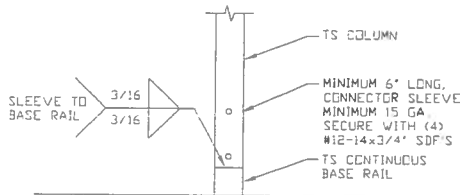
1A

BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO ≤ 14'-0"
SCALE NTS



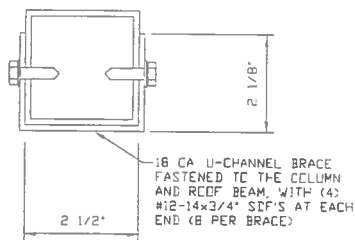
1B

BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"
SCALE NTS



2

RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NTS



BRACE SECTION
SCALE NTS



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B

DATE: 2-20-18

SHT. 8B

SCALE: NTS

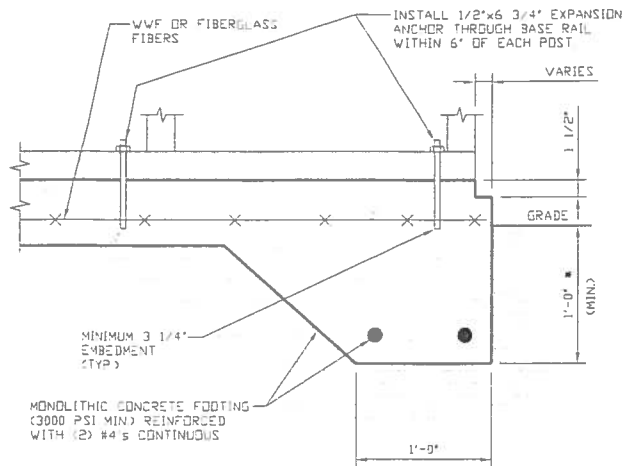
DWG. NO: SK-1

JOB NO:
16022S/17300S/18028S

REV: 5

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BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED

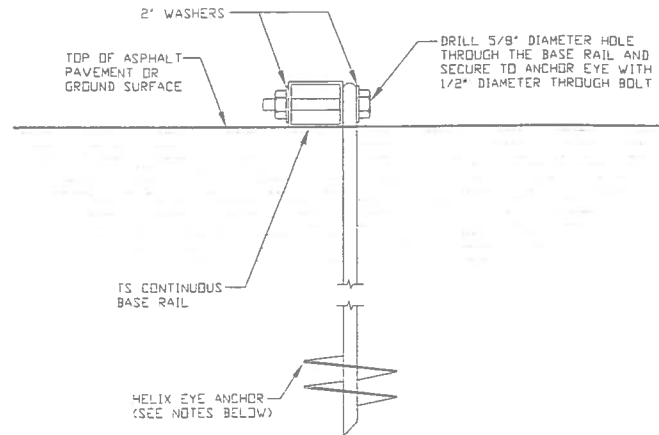


3A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE NTS

(MINIMUM ANCHOR EDGE DISTANCE IS 4")
* COORDINATE WITH LOCAL CODES/ORD



3B

GROUND BASE HELIX ANCHORAGE

SCALE NTS (CAN BE USED FOR ASPHALT)

GENERAL NOTES

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 INCHES 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 INCHES ELSEWHERE.

REINFORCING STEEL:

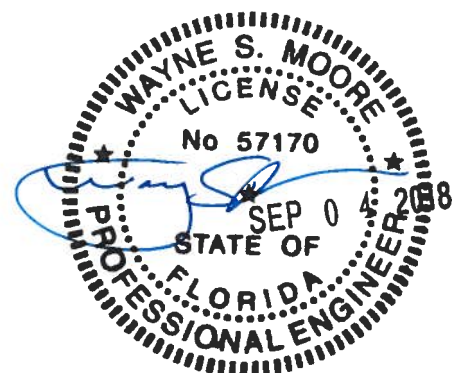
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE SO THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

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

HELIX ANCHOR NOTES:

- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 3 FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 4 FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6" HELICES WITH MINIMUM 50 INCH EMBEDMENT
- 5 FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL USE MINIMUM (2) 8" HELICES WITH MINIMUM 60 INCH EMBEDMENT



**MOORE AND ASSOCIATES
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DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0" x 20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SHT. 9A

SCALE: NTS

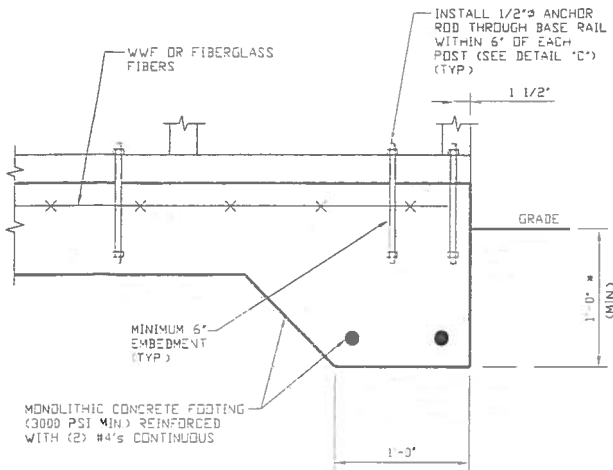
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

REV: 5

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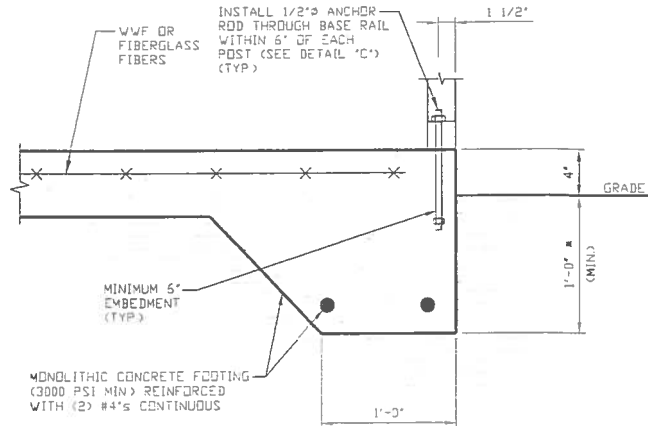
OPTIONAL FOUNDATION ANCHORAGE FOR LOW & HIGH WIND SPEED



3A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
(MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2")
* COORDINATE WITH LOCAL CODES/ORD



3B

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
(MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2")
* COORDINATE WITH LOCAL CODES/ORD

GENERAL NOTES

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:

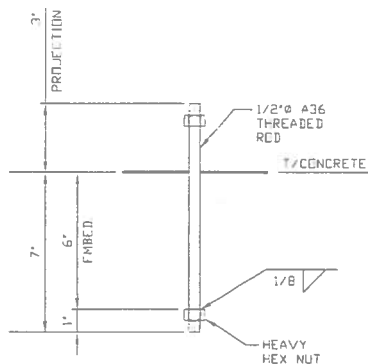
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2 INCHES ELSEWHERE

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE SO THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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

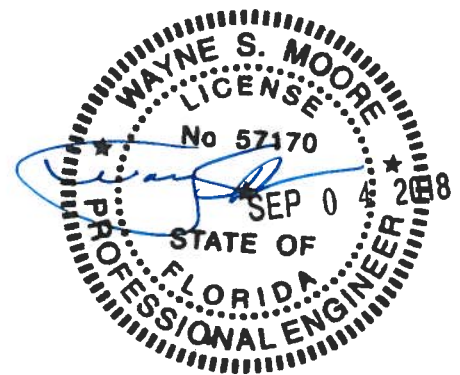
- 1 REINFORCEMENT IS BENT COLD
- 2 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
- 3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT



3C

ANCHOR ROD THROUGH BASE RAIL DETAIL

SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDM

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SHT. 9B

SCALE: NTS

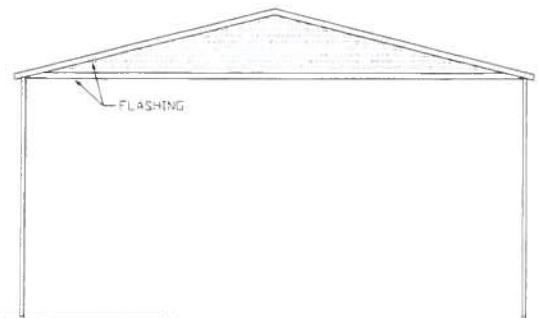
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

REV: 5

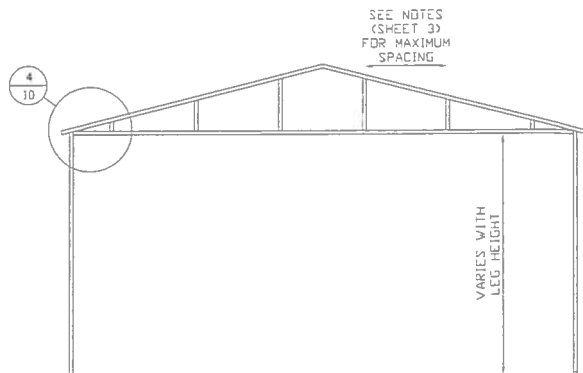
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BOX EAVE RAFTER GABLE END OPTION



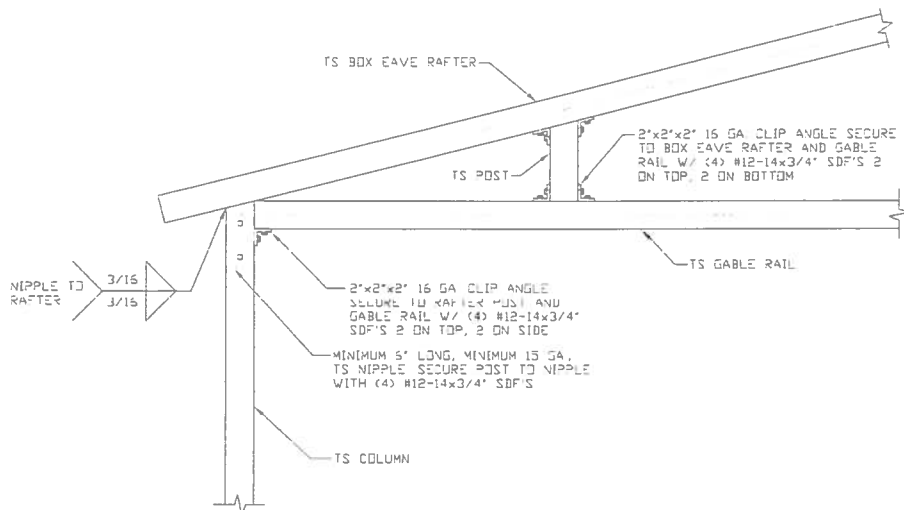
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



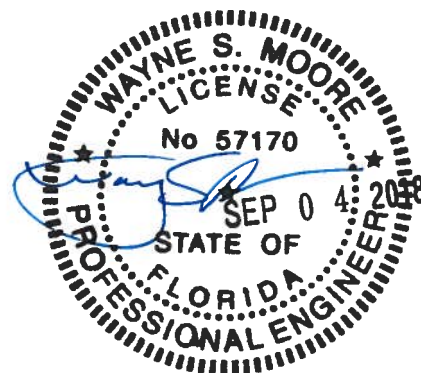
**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**BOX EAVE RAFTER GABLE RAIL TO
RAFTER POST CONNECTION DETAIL**

SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SCALE: NTS

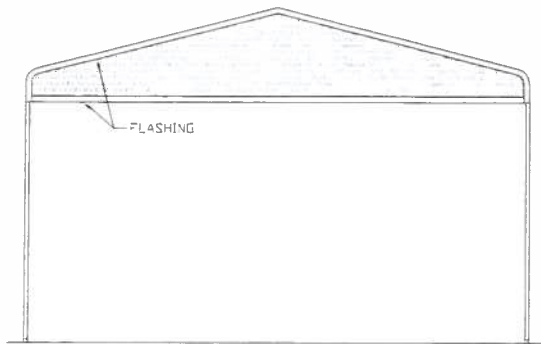
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

REV: 5

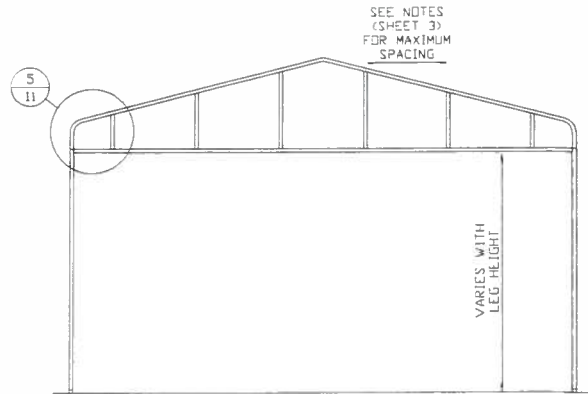
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BOW RAFTER GABLE END OPTION



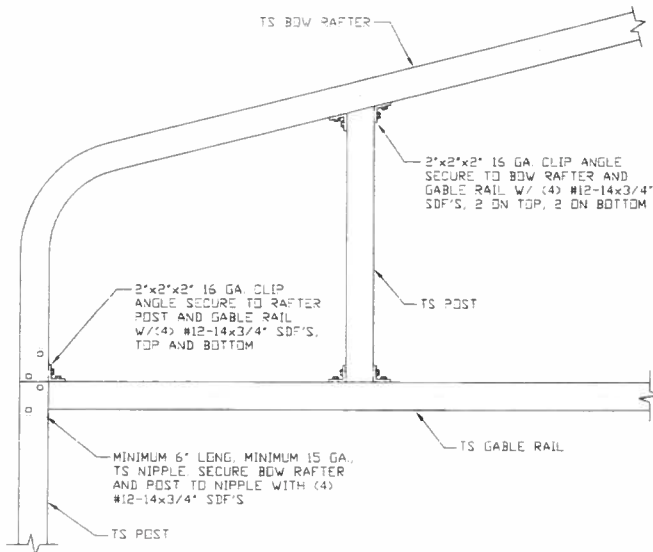
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

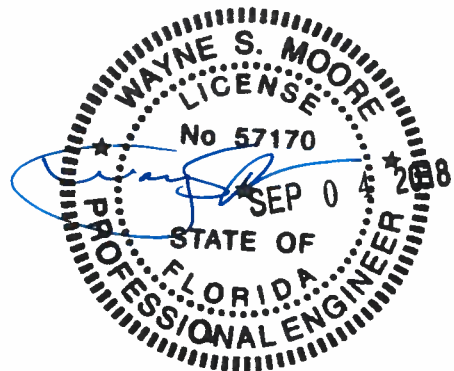
SCALE: NTS



5

**BOW RAFTER GABLE RAIL TO
RAFTER/POST CONNECTION DETAIL**

SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0" x 20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SHT. 11

SCALE: NTS

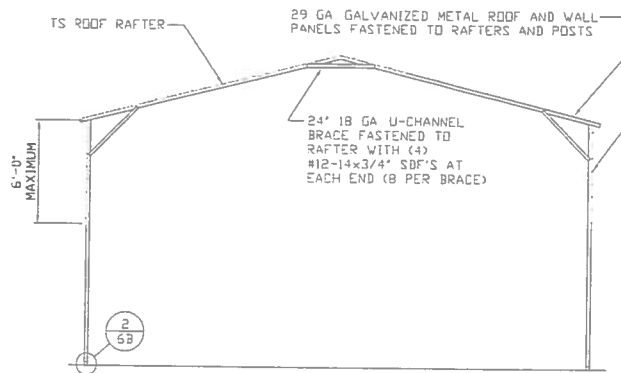
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

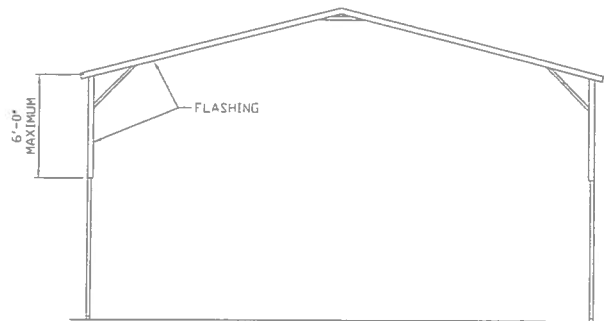
REV: 5

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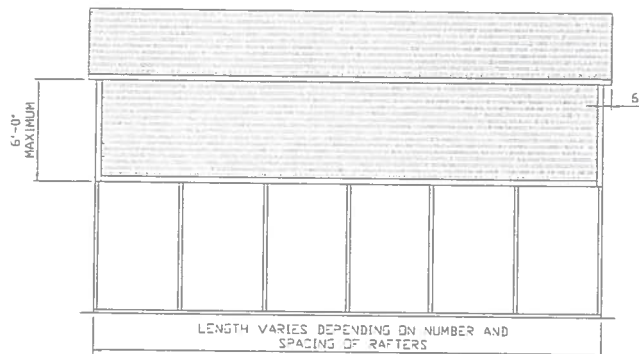
BOX EAVE RAFTER EXTRA SIDE PANEL OPTION



**TYPICAL RAFTER/POST FRAME
SECTION EXTRA SIDE PANELS**
SCALE: NTS



**TYPICAL END ELEVATION
EXTRA SIDE PANELS**
SCALE: NTS



**TYPICAL SIDE ELEVATION
EXTRA SIDE PANELS**
SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SCALE: NTS

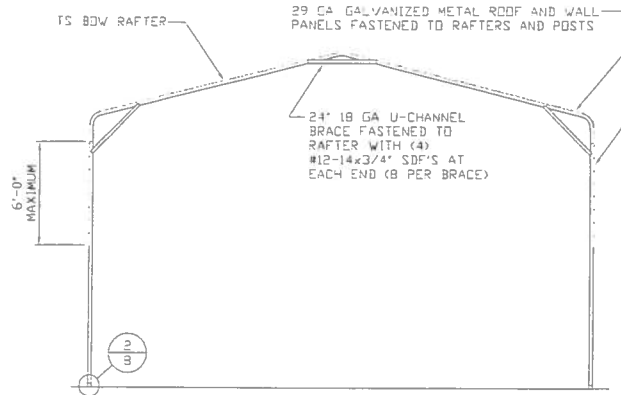
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

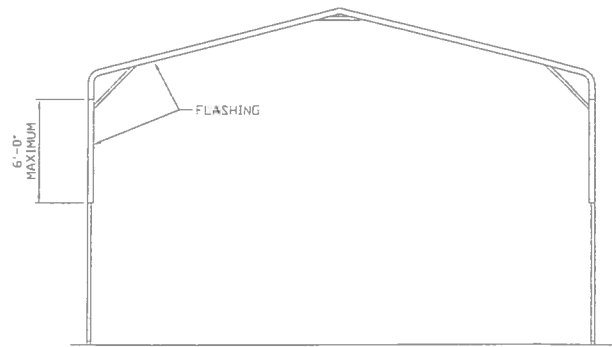
REV: 5

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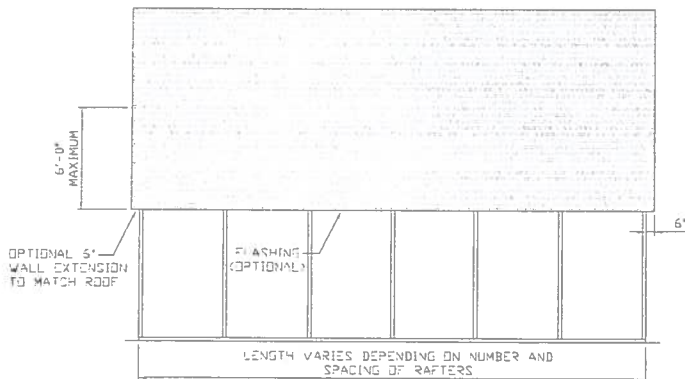
BOW RAFTER EXTRA SIDE PANEL OPTION



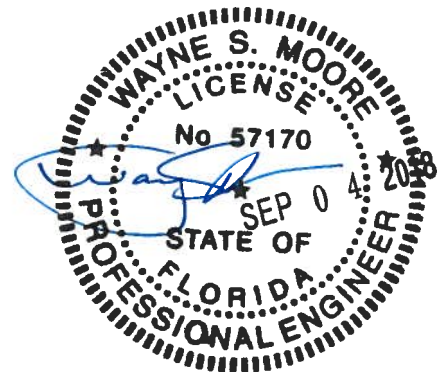
TYPICAL RAFTER/POST FRAME
SECTION EXTRA SIDE PANELS
SCALE: NTS



TYPICAL END ELEVATION
EXTRA SIDE PANELS
SCALE: NTS



TYPICAL SIDE ELEVATION
EXTRA SIDE PANELS
SCALE: NTS



**MOORE AND ASSOCIATES
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DRAWN BY: JRS

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PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SCALE: NTS

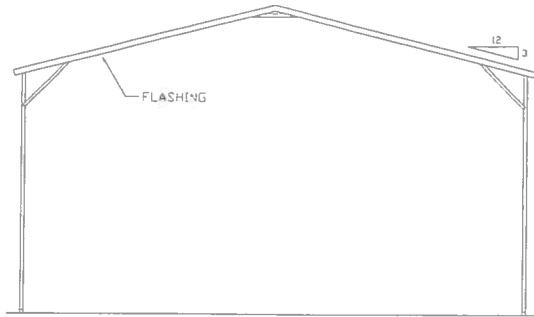
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

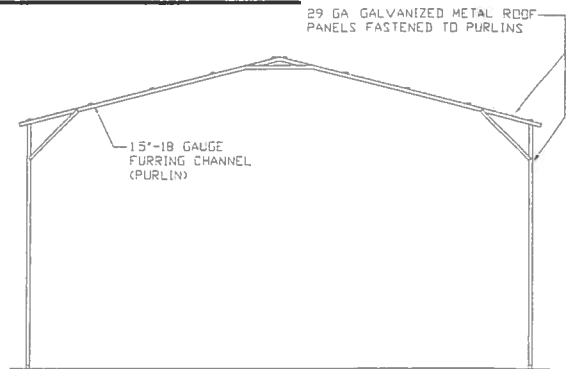
REV: 5

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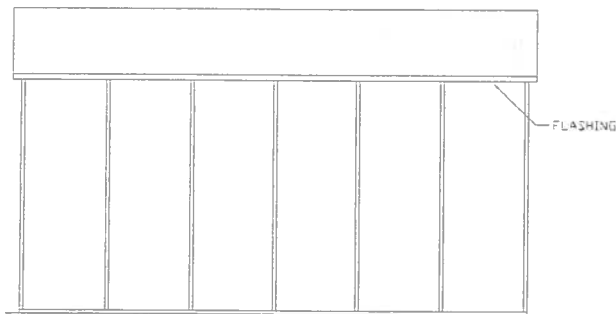
BOX EAVE RAFTER VERTICAL ROOF OPTION



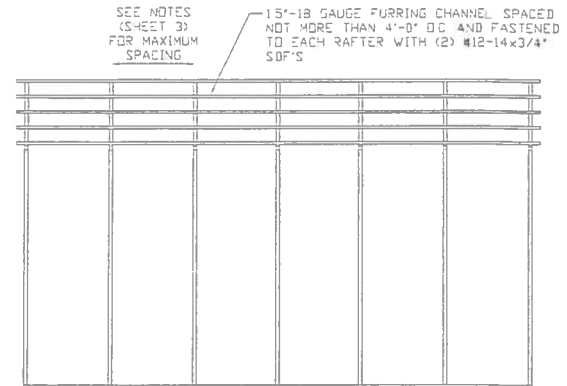
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING OPTION**
SCALE: NTS



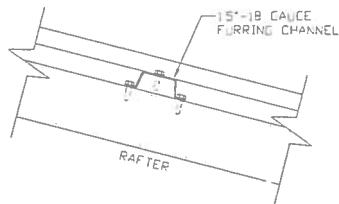
**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**
SCALE: NTS



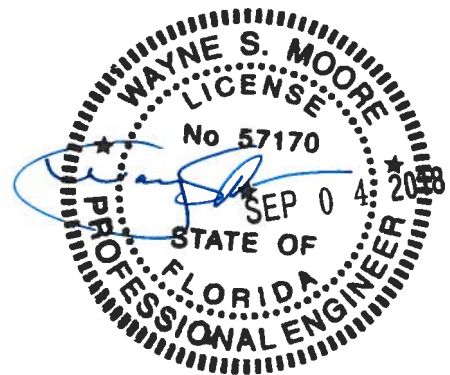
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING OPTION**
SCALE: NTS



**TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION**
SCALE: NTS



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



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B**

DATE: 2-20-18

SCALE: NTS

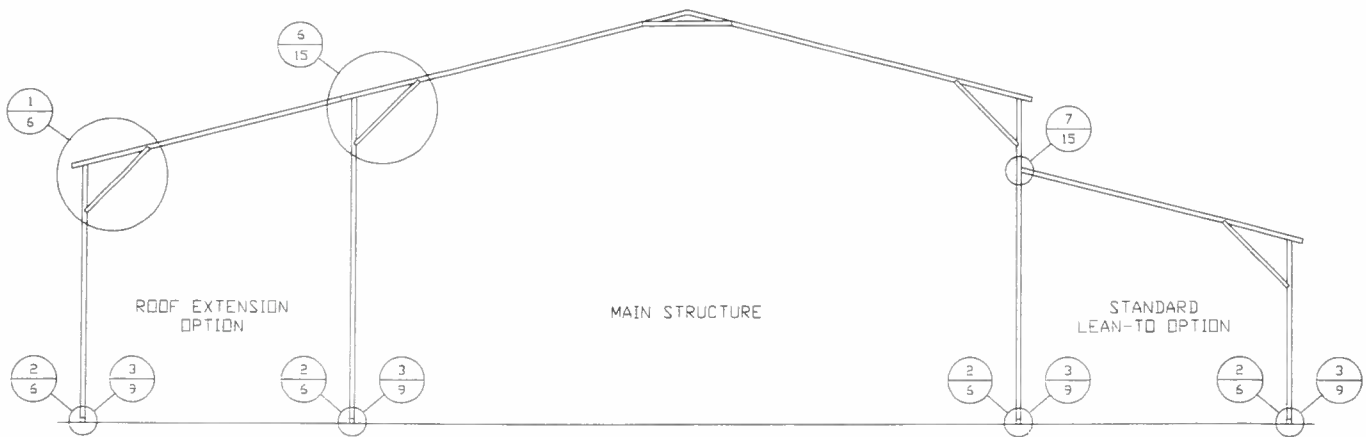
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18020S**

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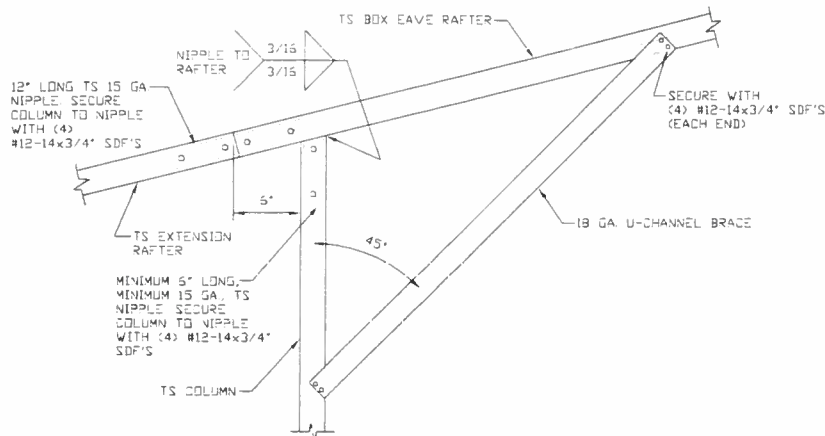
BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

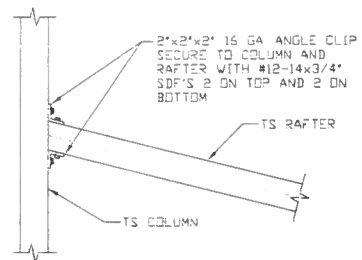
MAXIMUM WIDTH OF SINGLE MEMBER RAFTER LEAN-TO IS 15'-0".



6

SIDE EXTENSION RAFTER/COLUMN DETAIL

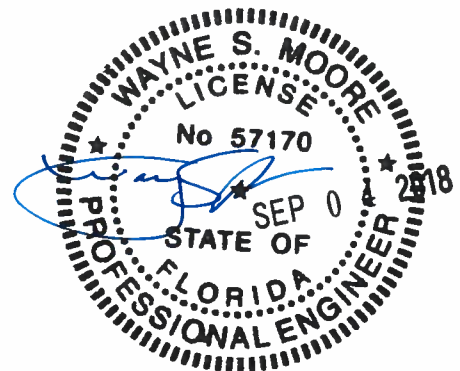
SCALE: NTS



7

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B

DATE: 2-20-18

SHT. 15

SCALE: NTS

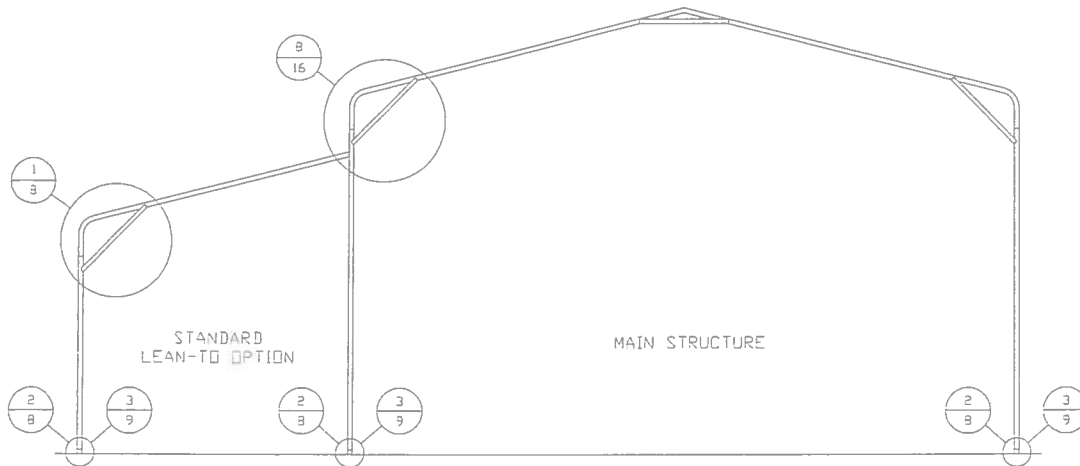
DWG. NO: SK-1

**JOB NO:
16022S/17300S/18028S**

REV: 5

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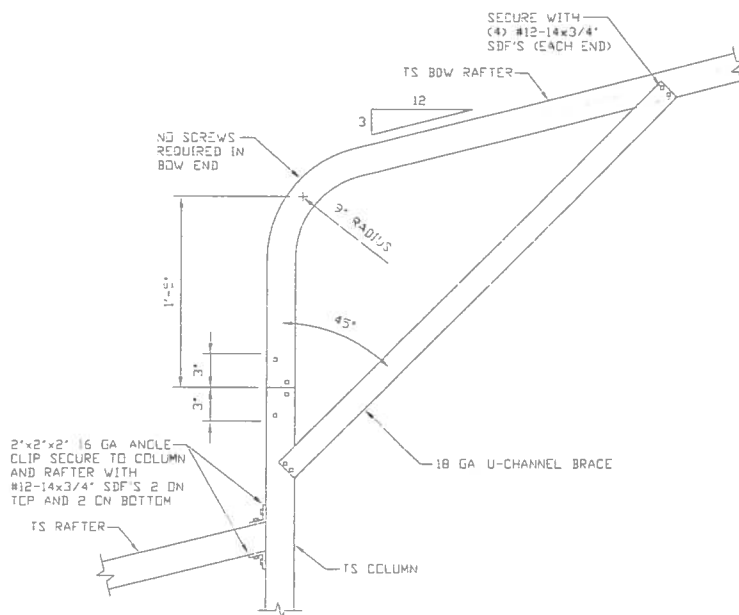
BOW RAFTER LEAN-TO OPTIONS



TYPICAL BOW RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

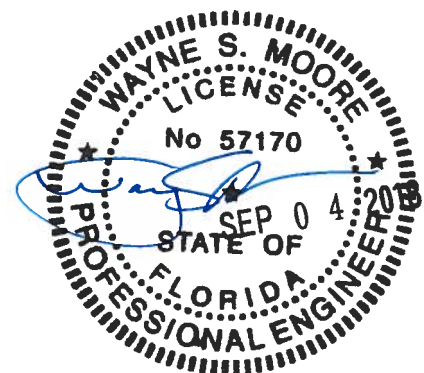
MAXIMUM WIDTH OF SINGLE MEMBER RAFTER LEAN-TO IS 16'-0"



8

SIDE EXTENSION RAFTER/COLUMN DETAIL

SCALE: NTS



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS
30'-0"x20'-0" FULLY OPEN CARPORT EXP. B

DATE: 2-20-18

SHT. 16

SCALE: NTS

DWG. NO: SK-1

JOB NO:
16022S/17300S/18028S

REV.: 5

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Florida Product Approval Codes

Roof Deck:

Capital Metal Supply Inc. Ag Panel: 20147.1

EXP 07/20/2020

Wall Panel:

Capital Metal Supply Inc. Ag Panel: 20148.1

EXP 07/20/2020

If you have any questions or concern, please contact Donald Little at
386-961-0006 or at tubularbuildingsystems@gmail.com.

