

**Columbia County New Building Permit Application**

For Office Use Only Application # 43957 Date Received 11/4 By MG Permit # 38940  
 Zoning Official LW/UH Date 11-6-19 Flood Zone X Land Use Ag Zoning A-3  
 FEMA Map # \_\_\_\_\_ Elevation \_\_\_\_\_ MFE \_\_\_\_\_ River \_\_\_\_\_ Plans Examiner 7.C Date 11-19-19  
 Comments \_\_\_\_\_  
☒ NOC ☒ EH ☒ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Well letter ☐ 911 Sheet ☐ Parent Parcel # \_\_\_\_\_  
☐ Day 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. 19-0862 OR City Water ☐ Fax \_\_\_\_\_  
 Applicant (Who will sign/pickup the permit) Jonathan Barrs Phone 352-256-8177  
 Address 833 Old Niblack Ave Fort White, FL 32038  
 Owners Name Jonathan & Karin Barrs Phone 352-256-8177  
 911 Address 833 Old Niblack Ave Fort White, FL 32038  
 Contractors Name Owner Phone \_\_\_\_\_  
 Address \_\_\_\_\_  
 Contractor Email K\_hullinger@hotmail.com \*\*\*Include to get updates on this job.

Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address Wayne S. Moore, 631 SE Industrial Circle Lake City, FL 32025  
 Mortgage Lenders Name & Address \_\_\_\_\_  
 Circle the correct power company ☐ FL Power & Light ☐ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy  
 Property ID Number 01-75-16-04107-001 Estimated Construction Cost 13,000  
 Subdivision Name \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions from a Major Road \_\_\_\_\_

Construction of Storage metal building Commercial OR ☒ Residential  
 Proposed Use/Occupancy Storage Number of Existing Dwellings on Property \_\_\_\_\_  
 Is the Building Fire Sprinkled? \_\_\_\_\_ 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 \_\_\_\_\_ Side \_\_\_\_\_ Side \_\_\_\_\_ Rear \_\_\_\_\_  
 Number of Stories \_\_\_\_\_ Heated Floor Area \_\_\_\_\_ Total Floor Area 840 Acreage \_\_\_\_\_  
 Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) \_\_\_\_\_

**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.

Jonathan W. Barrs  
Print Owners Name

Jonathan W. Barrs  
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

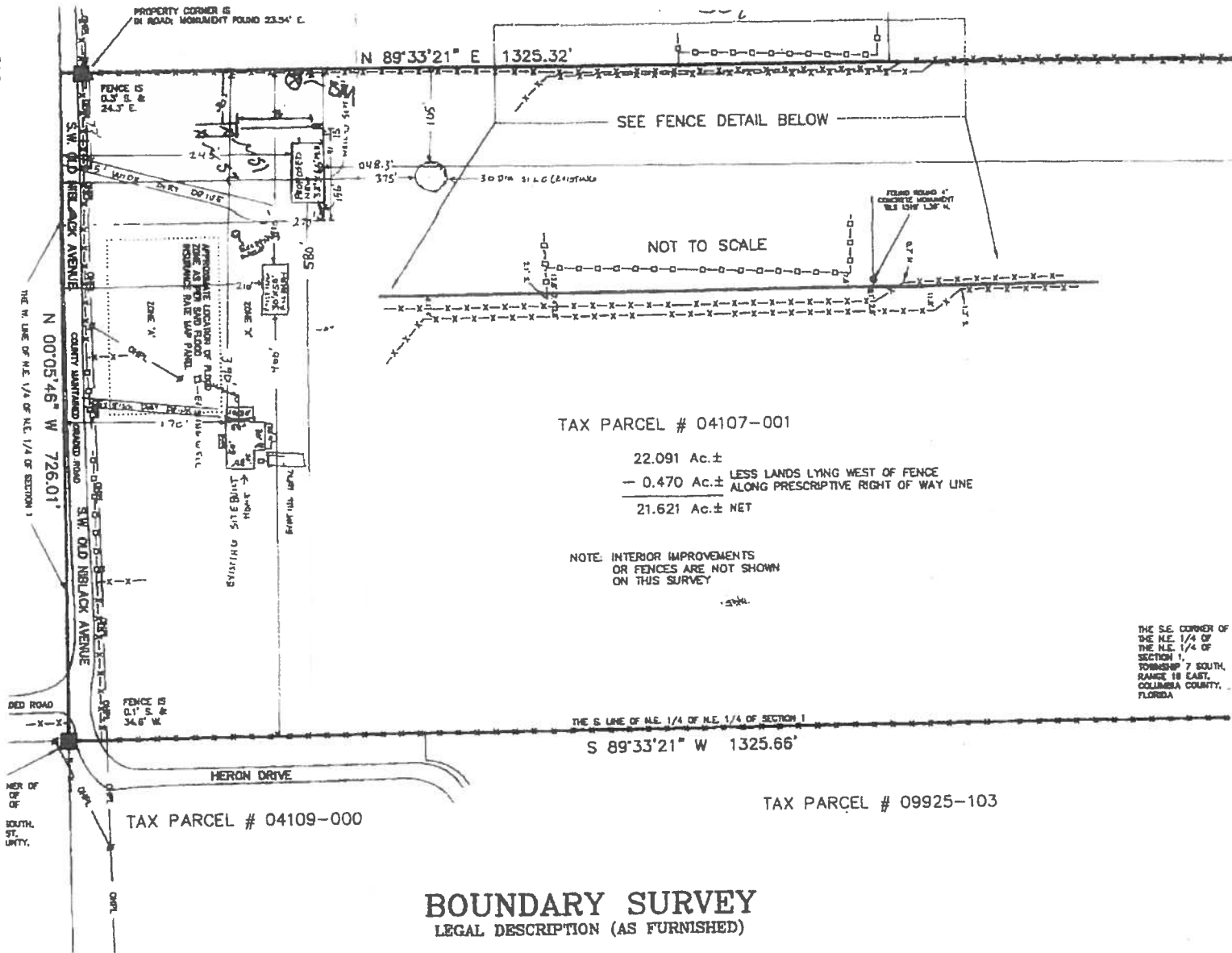
\_\_\_\_\_  
Contractor's License Number  
Columbia County  
Competency Card Number

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)

3/3  
11:38:33 05-28-2019



3867582187

**Columbia County Property Appraiser**

Jeff Hampton

**2020 Working Values**

updated: 10/30/2019

Parcel: &lt;&lt; 01-7S-16-04107-001 &gt;&gt;

Aerial Viewer Pictometry Google Maps

**Owner & Property Info**

Result: 2 of 12

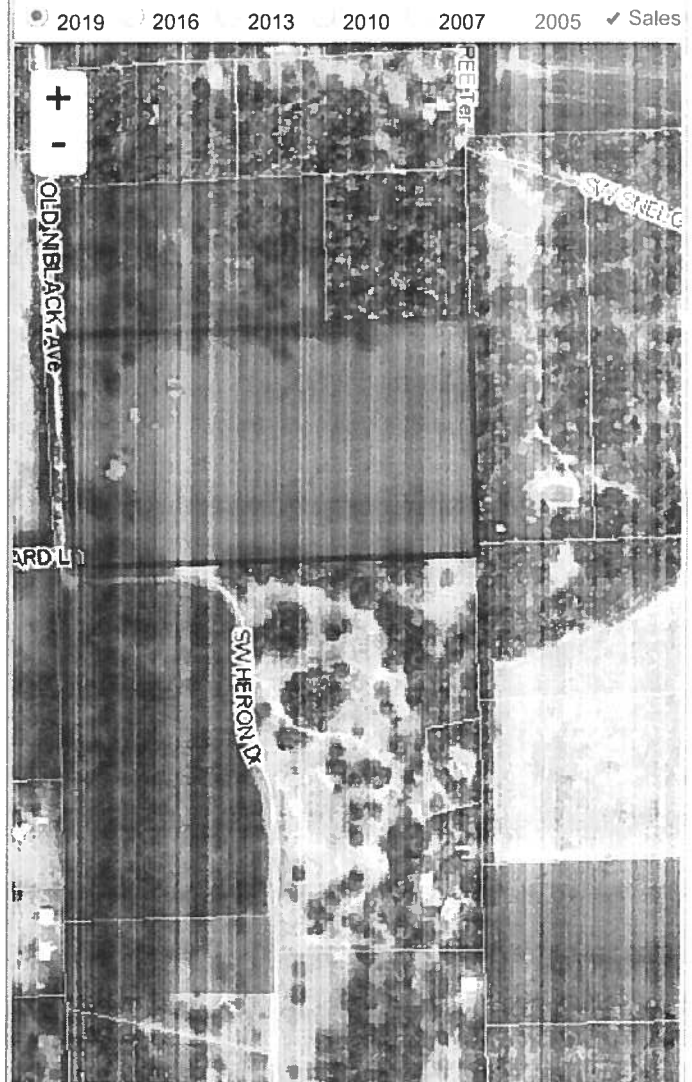
Owner	BARRS JONATHAN W & KORIN S BARRS 833 SW OLD NIBLACK AVE FORT WHITE, FL 32038		
Site	833 OLD NIBLACK AVE, FORT WHITE		
Description*	THE S 726 FT OF NE1/4 OF NE1/4 755-1139, DC 660-619, 830-1723 830-1724, DC 1220-197, WD 1220-199, WD 1379-827, DC 1386-55,		
Area	22 AC	S/T/R	01-7S-16
Use Code**	IMPROVED A (005000)	Tax District	3

\*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 &amp; Zoning office for specific zoning information.

**Property & Assessment Values**

2019 Certified Values		2020 Working Values	
Mkt Land (1)	\$13,982	Mkt Land (2)	\$17,232
Ag Land (1)	\$4,800	Ag Land (1)	\$4,800
Building (1)	\$94,330	Building (1)	\$95,930
XFOB (6)	\$6,072	XFOB (6)	\$6,072
Just	\$181,805	Just	\$186,655
Class	\$119,184	Class	\$124,034
Appraised	\$119,184	Appraised	\$124,034
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$119,184	Assessed	\$124,034
Exempt	\$0	Exempt	\$0
Total Taxable	county:\$119,184 city:\$119,184 other:\$119,184 school:\$119,184	Total Taxable	county:\$124,034 city:\$124,034 other:\$124,034 school:\$124,034

**▼ Sales History**

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
2/28/2019	\$305,000	1379/0827	WD	I	Q	01
8/19/2011	\$165,000	1220/0199	WD	I	Q	01
10/30/1996	\$77,900	830/1724	PR	I	U	35

**▼ Building Characteristics**

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SINGLE FAM (000100)	1966	1904	2509	\$95,930

\*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.

**▼ Extra Features & Out Buildings (Codes)**

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0213	GRAIN BIN	0	\$150.00	1.000	0 x 0 x 0	(000.00)
0213	GRAIN BIN	0	\$150.00	1.000	0 x 0 x 0	(000.00)
0166	CONC,PAVMT	1993	\$888.00	444.000	0 x 0 x 0	(000.00)
0294	SHED WOOD/	1993	\$900.00	120.000	10 x 12 x 0	(000.00)

# NOTICE OF COMMENCEMENT

For Parcel Identification Number:

01-75-16-04107-001

Clerk's Office Stamp

Inst: 201912025741 Date: 11/04/2019 Time: 2:26PM  
Page 1 of 1 B: 1397 P: 2757, 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) Barrs  
a) Street (job) Address: 833 SW Old N Black Ave, Fort White, FL 32038
2. General description of improvements: storage building
3. Owner Information or Lessee information if the Lessee contracted for the improvements  
a) Name and address: Jonathan Barrs 833 SW Old N Black Ave FL 32038  
b) Name and address of fee simple titleholder (if other than owner):  
c) Interest in property: owner
4. Contractor Information  
a) Name and address: owner  
b) Telephone No.: (352) 256-9177
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 Jonathan W. Barrs  
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Jonathan W. Barrs  
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 4th day of November, 2019, by

Jonathan Barrs as self for  
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known OR Produced Identification ☒ Type FWD

Notary Signature [Signature] Notary Stamp or Seal





## SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # \_\_\_\_\_ 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.

<b>ELECTRICAL</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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
<b>MECHANICAL/A/C</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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
<b>PLUMBING/GAS</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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
<b>ROOFING</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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
<b>SHEET METAL</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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
<b>FIRE SYSTEM/SPRINKLER</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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
<b>SOLAR</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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
<b>STATE SPECIALTY</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ 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

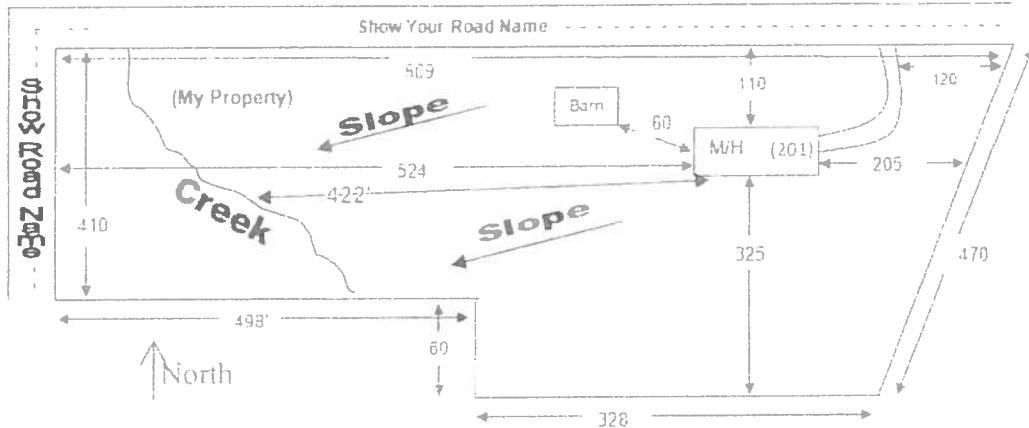
## SITE PLAN CHECKLIST

- \_\_\_ 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

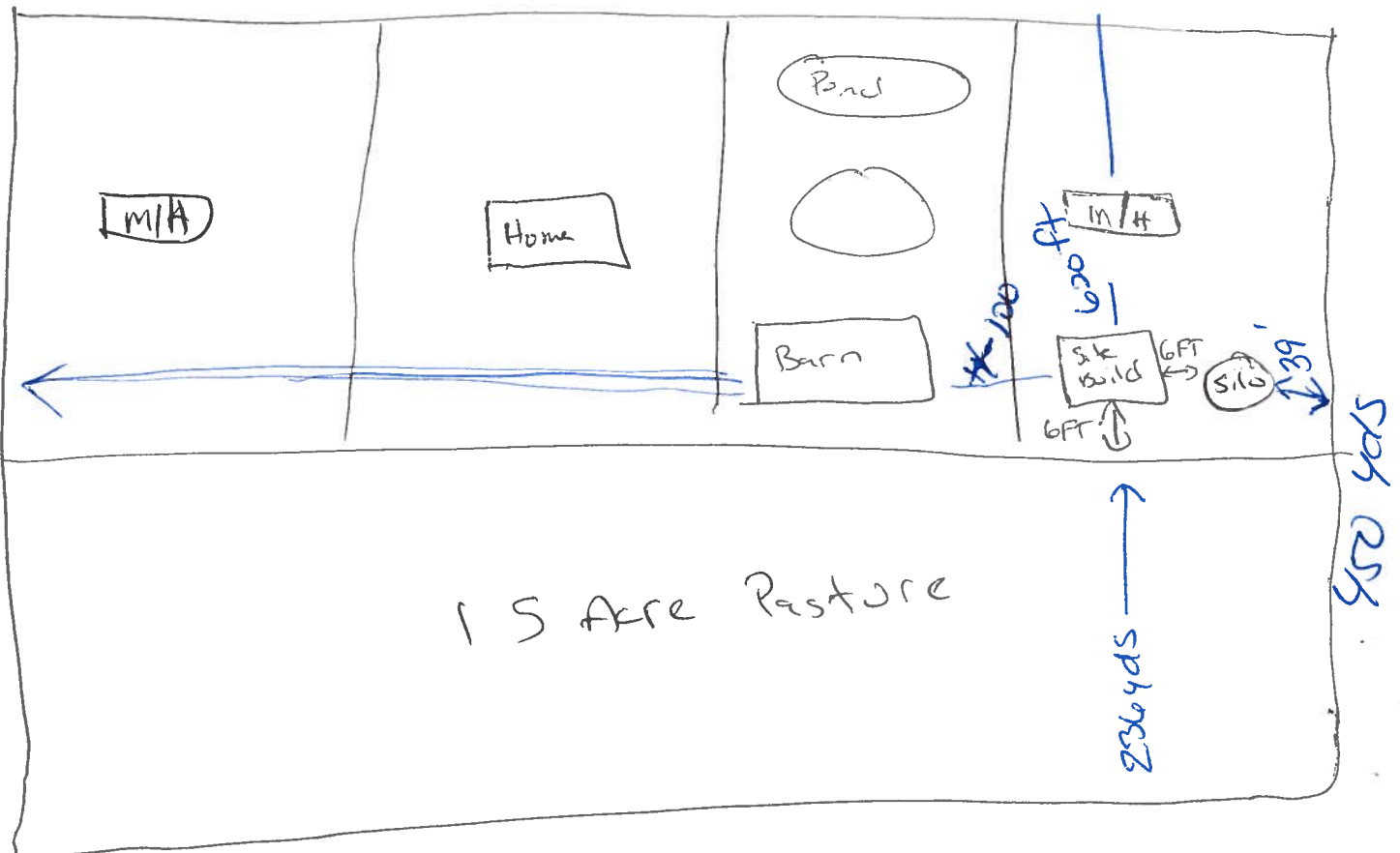
## SITE PLAN EXAMPLE

Revised 7/1/15

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



Road





## COLUMBIA COUNTY BUILDING DEPARTMENT

135 NE Hernando Ave., Suite B-21

Lake City, FL 32055

Office: 386-758-1008 Fax: 386-758-2160

### OWNER BUILDER DISCLOSURE STATEMENT

#### **Florida Statutes Chapter 489.103:**

1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.
2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts.
4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease, unless I am completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.
5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.
6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.



7. I understand that it is a frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

8. I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

9. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at **850-487-1395** or <http://www.myfloridalicense.com/> for more information about licensed contractors.

11. I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

833 SW OLD N Black Ave, Fort White, FL 32038

---

(Write in the address of jobsite property)

12. I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

**Florida Statutes Chapter 489.503:**

State law requires electrical contracting to be done by licensed electrical contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own electrical contractor even though you do not have a license. You may install electrical wiring for a farm outbuilding or a single-family or duplex residence. You may install electrical wiring in a commercial building the aggregate construction costs of which are under \$75,000. The home or building must be for your own use and occupancy. It may not be built for sale or lease, unless you are completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If you sell or lease more than one building you have wired yourself within 1 year after the construction is complete, the law will presume that you built it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person as your electrical contractor. Your construction shall be done according to building codes and zoning regulations. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances.

An owner of property completing the requirements of a building permit, where the contractor listed on the permit substantially completed the project as determined by the local permitting agency, for a one-family or two family residence, townhome, accessory structure of a one-family or two-family residence or townhome or individual residential condominium unit or cooperative unit. Prior to the owner qualifying for the exemption, the owner must receive approval from the local permitting agency, and the local permitting agency must determine that the contractor substantially completed the project. An owner who qualifies for the exemption under this paragraph is not required to occupy the dwelling or unit for at least 1 year after the completion of the project.

Before a building permit shall be issued, this notarized disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit.

**TYPE OF CONSTRUCTION**

☐ Single Family Dwelling    ☐ Two-Family Residence    ☐ Farm Outbuilding

☐ Addition, Alteration, Modification or other Improvement    ☐ Electrical

☒ Other Storage building

☐ Contractor substantially completed project, of a \_\_\_\_\_

☐ Commercial, Cost of Construction \_\_\_\_\_ for construction of \_\_\_\_\_

I, Jonathan W. Barrs, have been advised of the above disclosure  
(Print Property Owners Name)

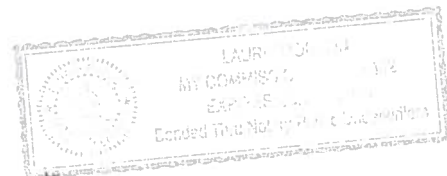
statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Signature:  Date: 11-4-19  
(Signature of property owner)

**NOTARY OF OWNER BUILDER SIGNATURE**

The above signer is personally known to me or produced identification FIDL

Notary Signature  Date 11/4/19 (Seal)





## Florida Product Approval Codes

### Roll-Up Doors:

Janus International Corporation Model 750: 21450.8

EXP 12/31/2019

### Walk-In Door:

Elixir Door & Metal Company blank (no window): 17996.5

EXP 9/14/2020

### Roof Deck:

Capital Metal Supply Inc. Ag Panel: 20147.1

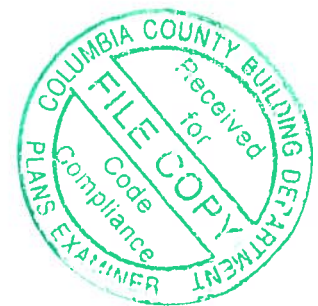
EXP 07/20/2020

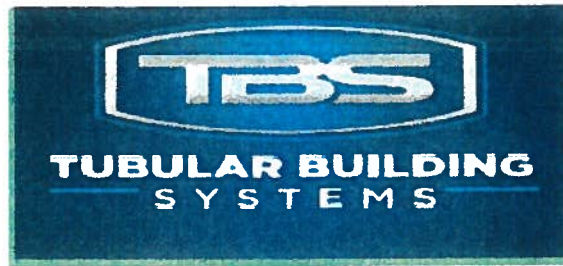
### Wall Panel:

Capital Metal Supply Inc. Ag Panel: 20148.1

EXP 07/20/2020

If you have any questions on concern, please contact Donald Little at 386-961-0006 or at [tubularbuildingsystems@gmail.com](mailto:tubularbuildingsystems@gmail.com).





**STRUCTURAL DESIGN**

**ENCLOSED BUILDING**

**EXPOSURE B**

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

18 December 2017

Revision 4

M&A Project No. 16022S/17300S

Prepared for:

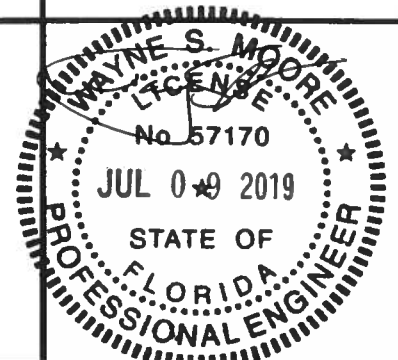
**Tubular Building Systems, LLC**  
631 SE Industrial Circle  
Lake City, Florida 32025

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**



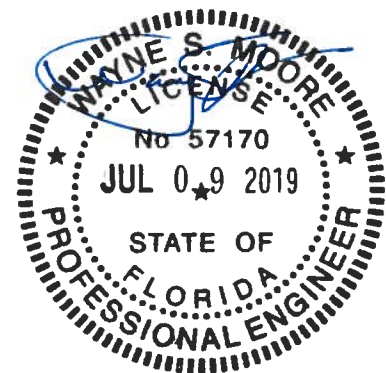



<b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b>	DRAWN BY: LT	<b>TUBULAR BUILDING SYSTEMS 30'-0"x20'-0" ENCLOSED BUILDING EXP. B PE SEAL COVER SHEET</b>		
	CHECKED BY: PDH			
<small>THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.</small>	PROJECT MGR: WSM	DATE: 12-18-17	SCALE: NTS	JOB NO: 16022S/17300S
	CLIENT: TBS	SHT. 1	DWG. NO: SK-3	REV: 4



# DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 4	TYPICAL SIDE AND END ELEVATIONS
SHEET 5	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
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)
SHEET 8A	TYPICAL RAFTER COLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 8B	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 9A	BASE RAIL ANCHORAGE OPTIONS
SHEET 9B	OPTIONAL FOUNDATION ANCHORAGE
SHEET 10	TYPICAL END WALL AND SIDE WALL OPENING FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 11	TYPICAL END WALL AND SIDE WALL OPENING FRAMING SECTIONS (BOW RAFTER)
SHEET 12	WALL OPENING DETAILS
SHEET 13	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 14	LEAN-TO OPTIONS (BOW RAFTER)
SHEET 15	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION
SHEET 16	OPTIONAL DOOR HEADER



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**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: TBS**

**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SCALE: NTS**

**SHT. 2**

**DWG. NO: SK-3**

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

**REV.: 4**

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## INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR A MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
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 (WIND).
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 USED 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 = 325      I<sub>E</sub> = 10  
S<sub>DS</sub> = 1522      V = C<sub>S</sub>W  
S<sub>D1</sub> = 0839



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30'-0"x20'-0" ENCLOSED BUILDING EXP. B

DATE: 12-18-17

SHT. 3

SCALE: NTS

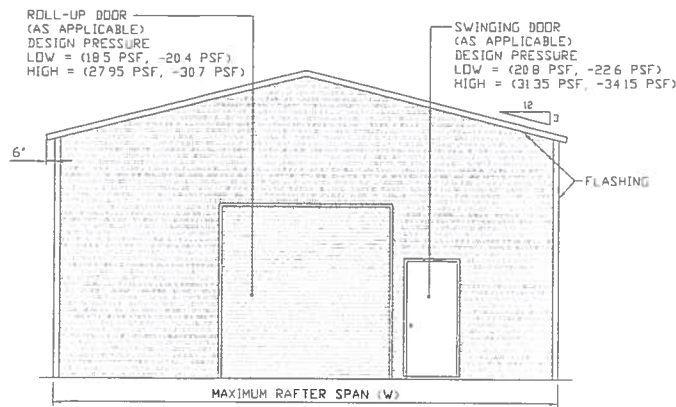
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JOB NO:  
160225/17300S

REV: 4

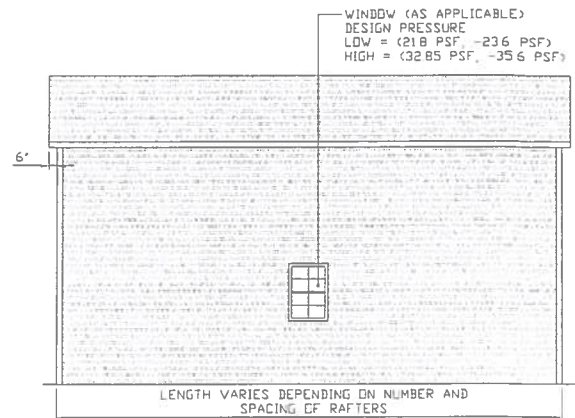
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## BOX EAVE FRAME RAFTER ENCLOSED BUILDING



**TYPICAL END ELEVATION-HORIZONTAL ROOF**

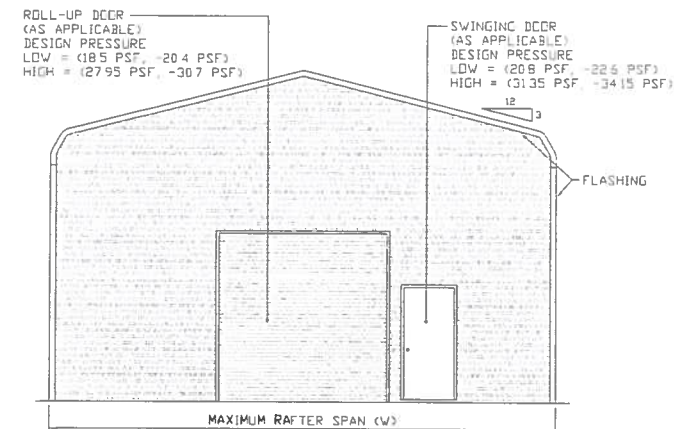
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**TYPICAL SIDE ELEVATION-HORIZONTAL ROOF**

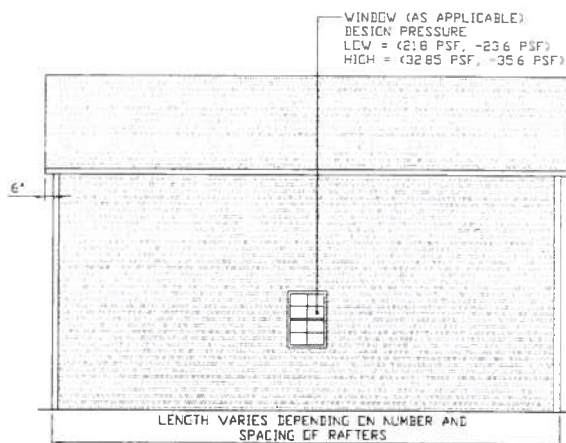
SCALE: NTS

## BOW FRAME RAFTER ENCLOSED BUILDING



**TYPICAL END ELEVATION**

SCALE: NTS



**TYPICAL SIDE ELEVATION**

SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

DATE: 12-18-17

SHT. 4

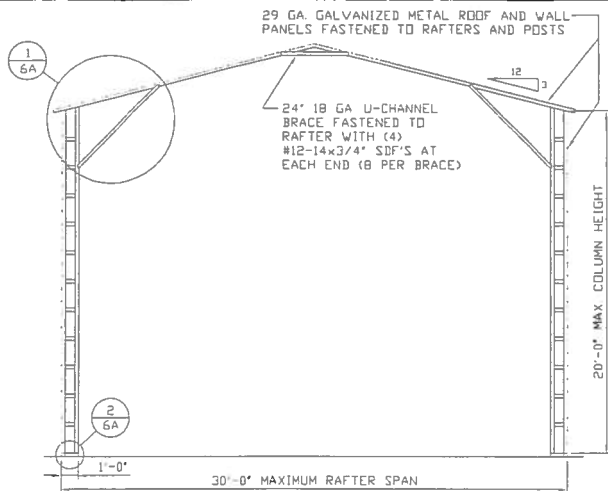
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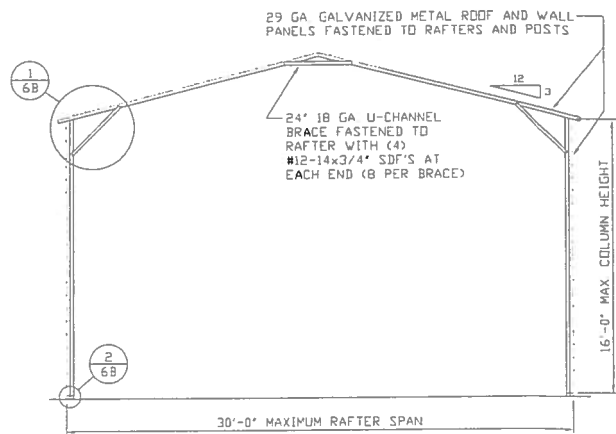
JOB NO:  
16022S/17300S

REV: 4

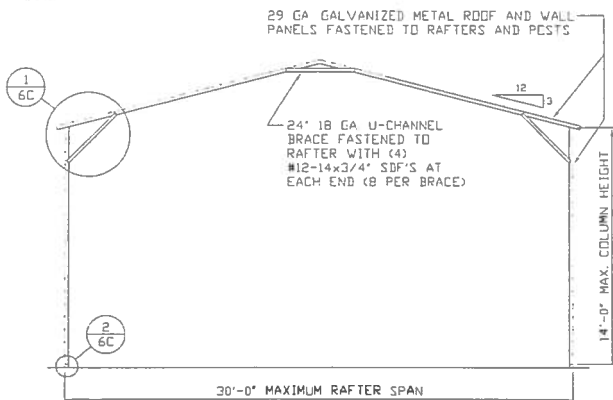
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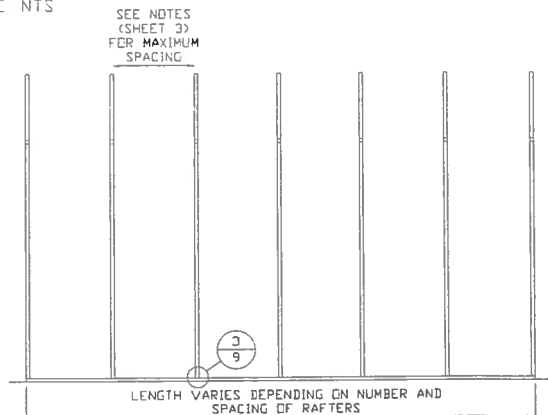
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SCALE: NTS



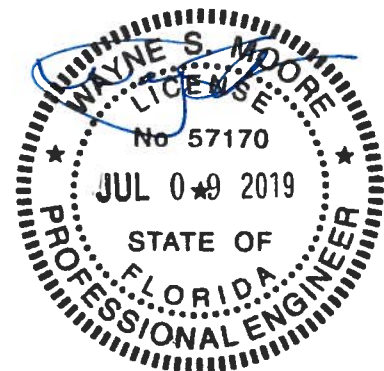
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 5**

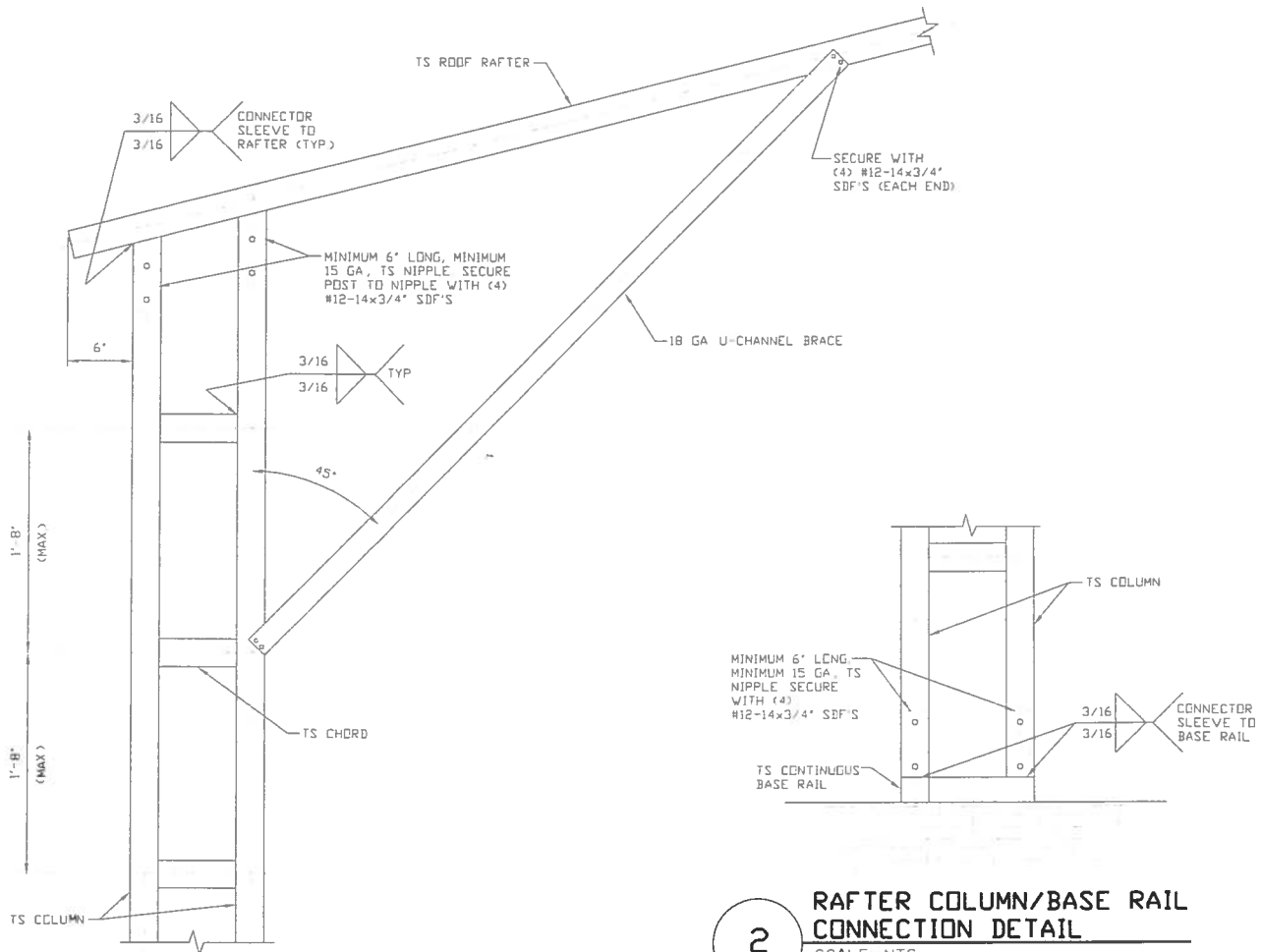
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**JOB NO:  
16022S/17300S**

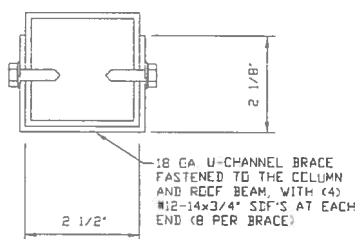
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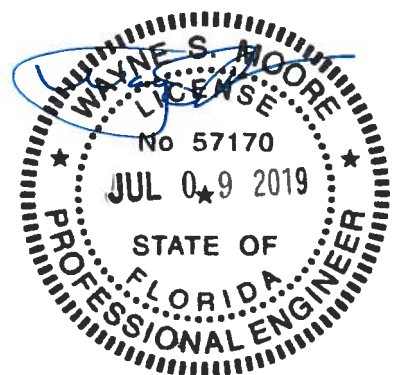


**1** BOX EAVE RAFTER COLUMN  
CONNECTION DETAIL  
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"  
SCALE: NTS

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



**BRACE SECTION**  
SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 6A**

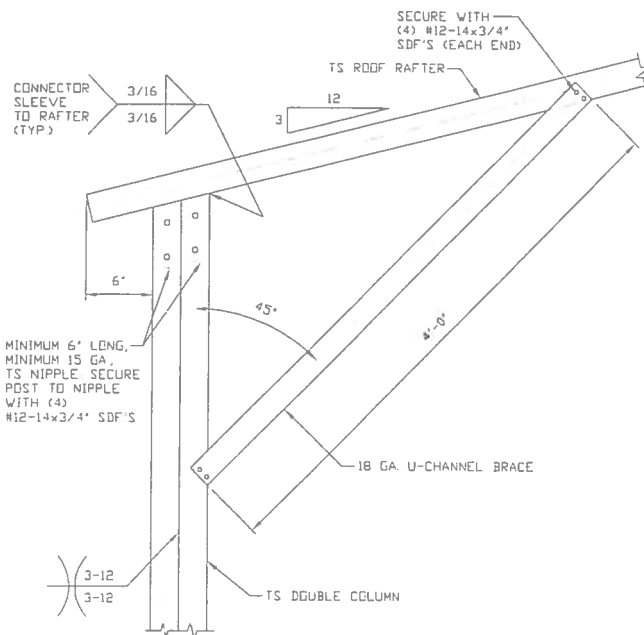
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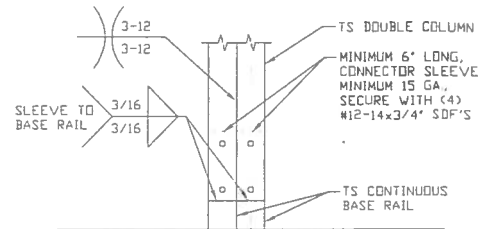
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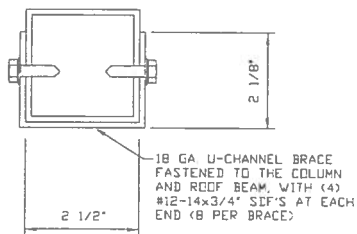
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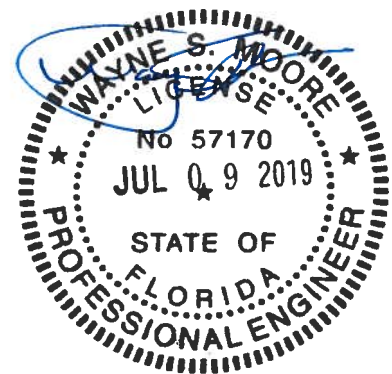
**1** BOX EAVE RAFTER COLUMN  
CONNECTION DETAIL  
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"  
SCALE: NTS



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



**BRACE SECTION**  
SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"X20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 6B**

**SCALE: NTS**

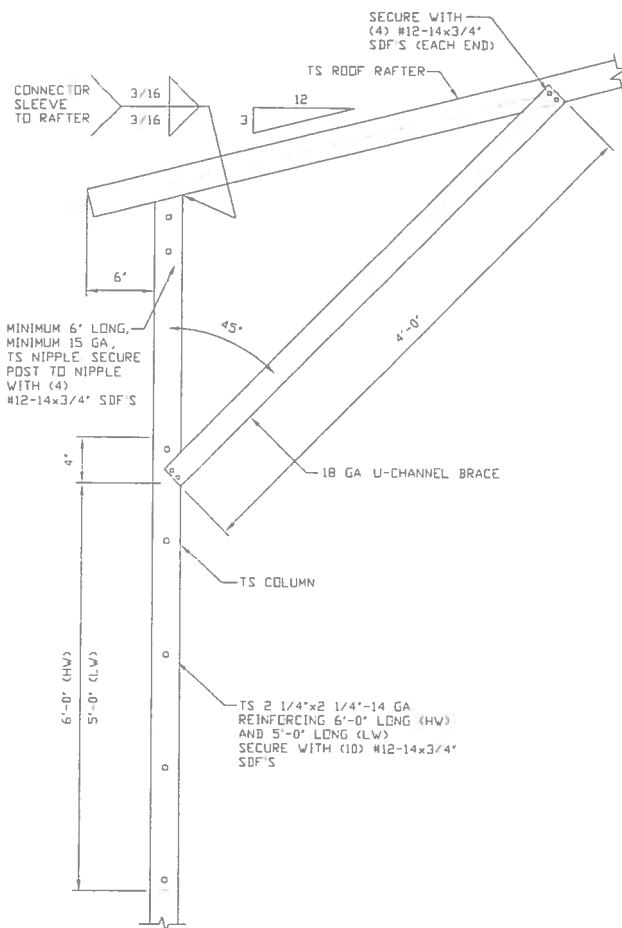
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**JOB NO:  
16022S/17300S**

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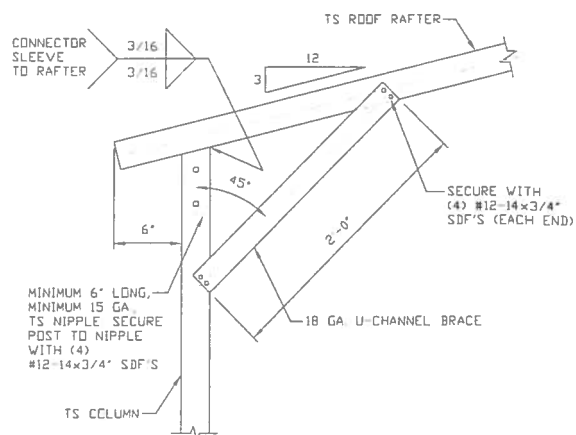




1A

**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 14'-0"**

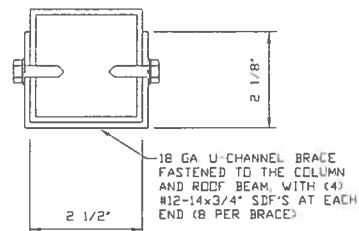
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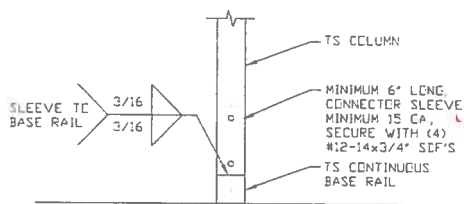
**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"**

SCALE: NTS



**BRACE SECTION**

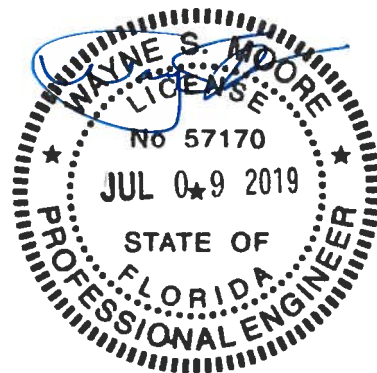
SCALE: NTS



2

**RAFTER COLUMN/BASE RAIL CONNECTION DETAIL**

SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 6C**

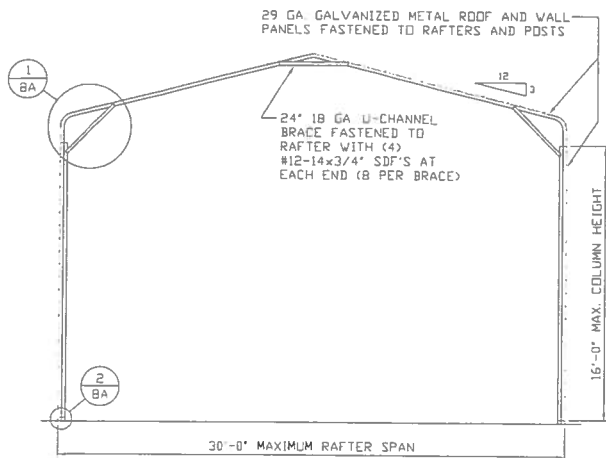
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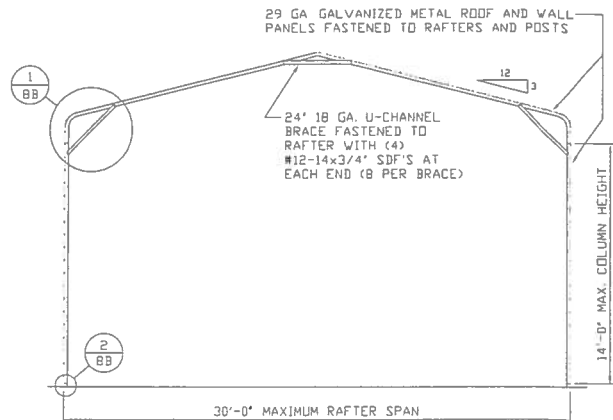
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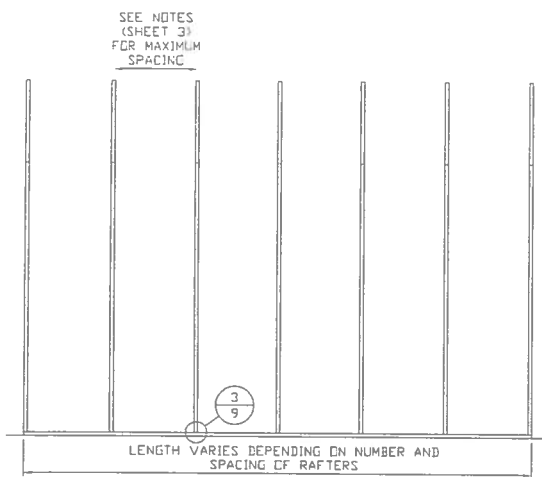
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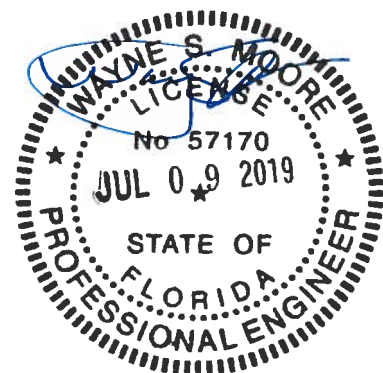
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 7**

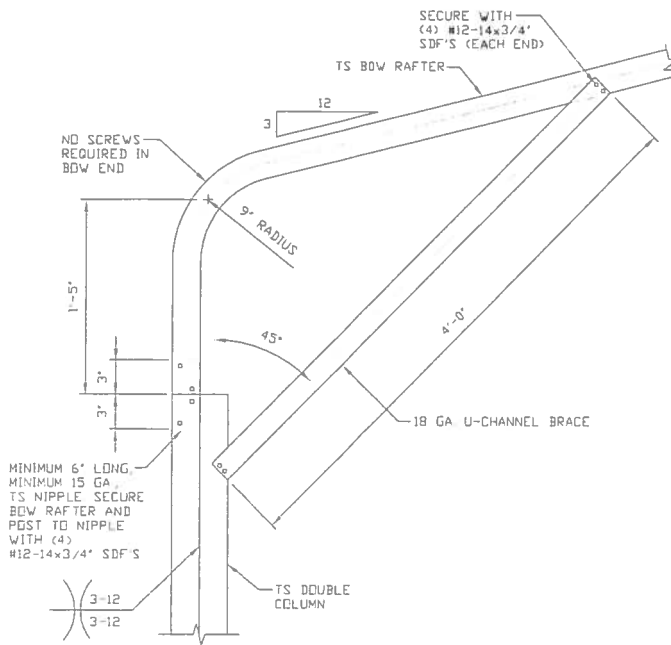
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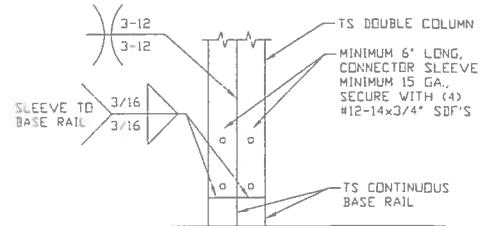
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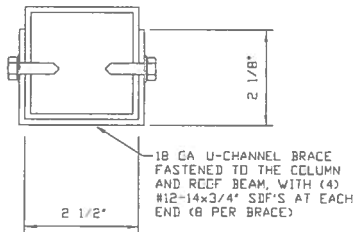
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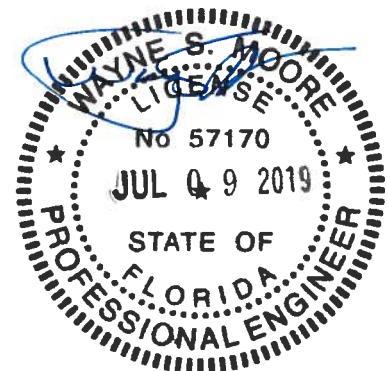
**1** BOX EAVE RAFTER COLUMN  
CONNECTION DETAIL  
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"  
SCALE: NTS



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



**BRACE SECTION**  
SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 8A**

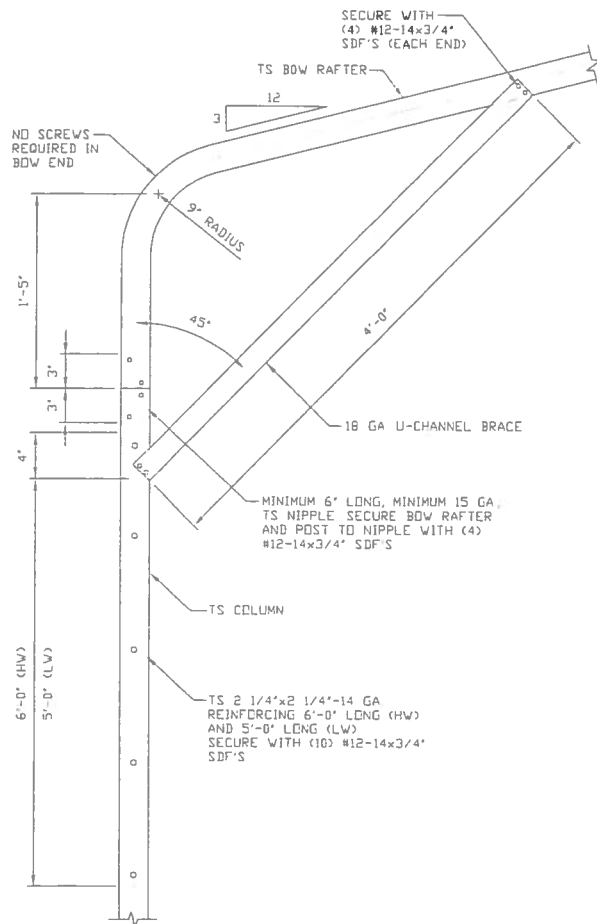
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**JOB NO:  
16022S/17300S**

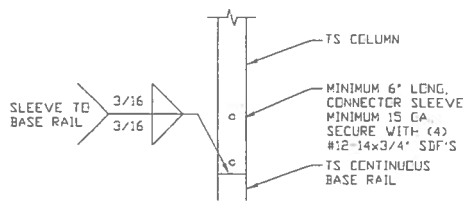
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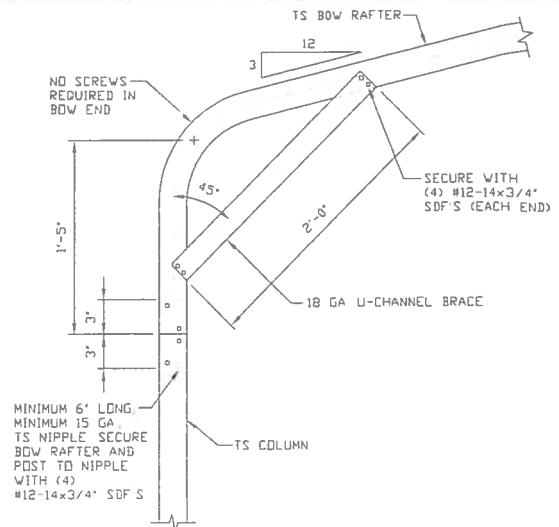
1A

**BOX EAVE RAFTER COLUMN  
CONNECTION DETAIL  
FOR HEIGHTS 10'-0" < TO ≤ 14'-0"**  
SCALE: NTS



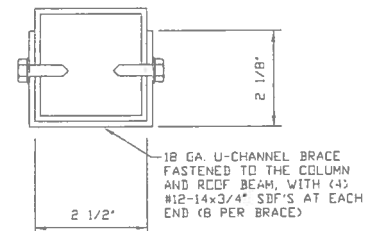
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**RAFTER COLUMN/BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



1B

**BOX EAVE RAFTER COLUMN  
CONNECTION DETAIL  
FOR HEIGHTS ≤ 10'-0"**  
SCALE: NTS



**BRACE SECTION**  
SCALE: NTS



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**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 8B**

**SCALE: NTS**

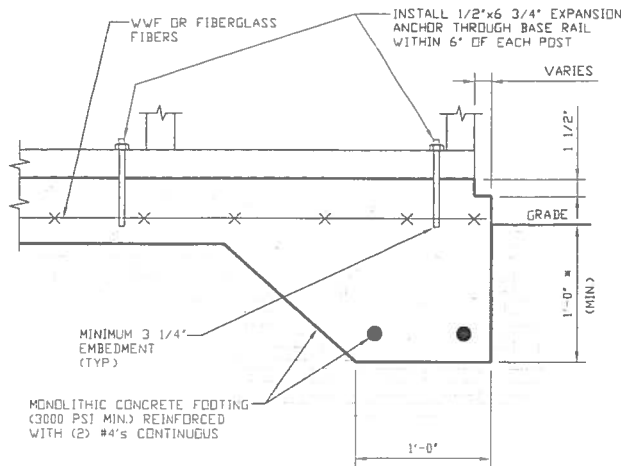
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## BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED



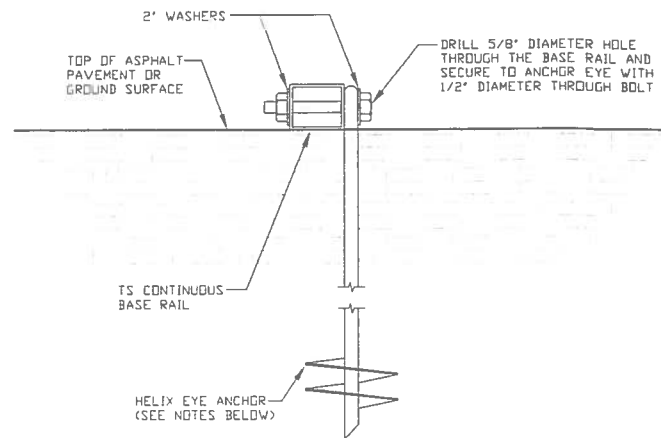
3A

### 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:

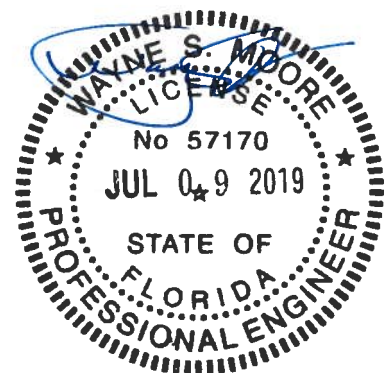
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

### 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.



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TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B

DATE: 12-18-17

SHT. 9A

SCALE: NTS

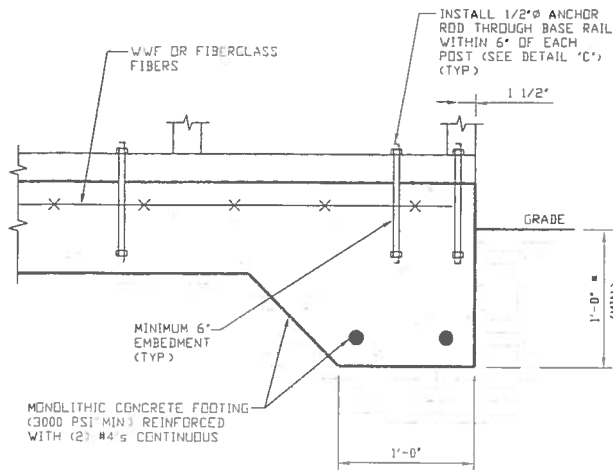
DWG. NO: SK-3

JOB NO:  
16022S/17300S

REV: 4

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# OPTIONAL FOUNDATION ANCHORAGE FOR LOW & HIGH WIND SPEED

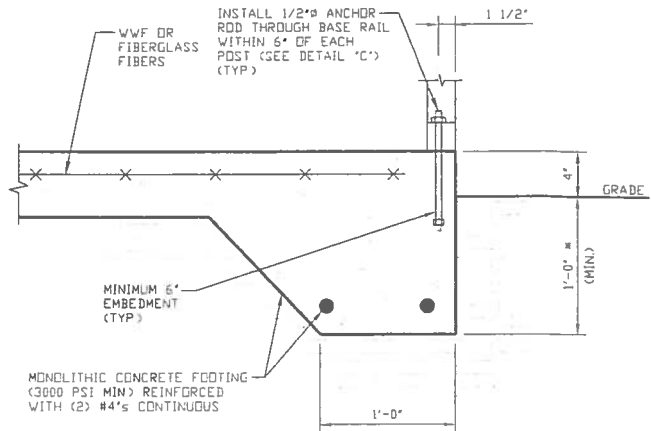


1A

## CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS

- (MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2")
- \* COORDINATE WITH LOCAL CODES/ORD



1B

## 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:

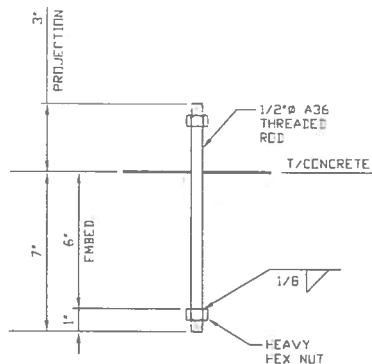
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318  
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2 INCHES ELSEWHERE.

### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. 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.



1C

## ANCHOR ROD THROUGH BASE RAIL DETAIL

SCALE: NTS



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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS  
30'-0" x 20'-0" ENCLOSED BUILDING EXP. B

DATE: 12-18-17

SHT. 9B

SCALE: NTS

DWG. NO: SK-3

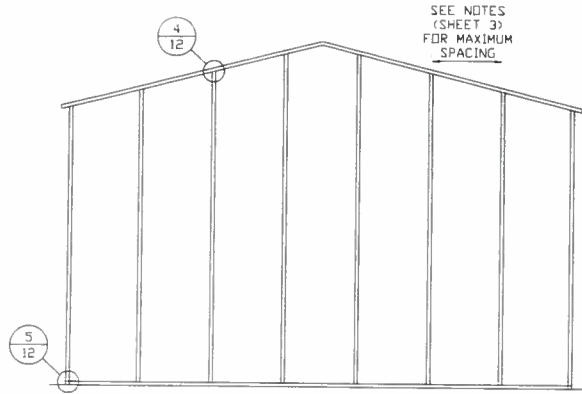
JOB NO:  
16022S/17300S

REV: 4

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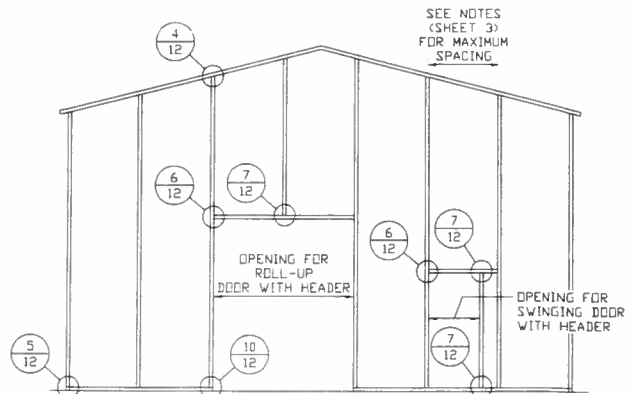


## BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



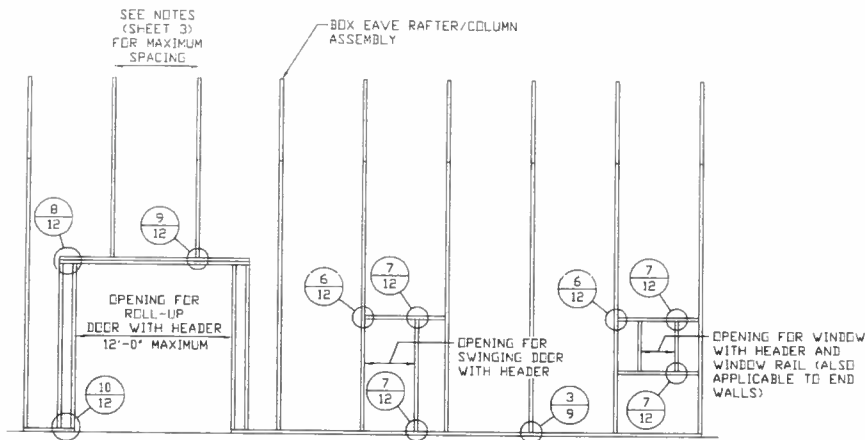
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



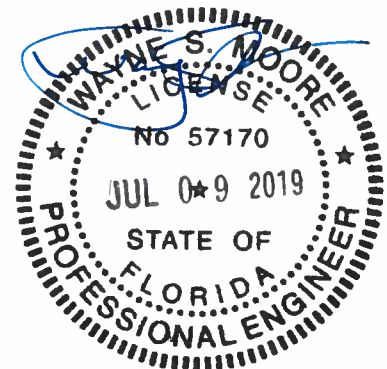
**TYPICAL BOX EAVE RAFTER END  
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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**DRAWN BY: LT**

**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: TBS**

**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SCALE: NTS**

**SHT. 10**

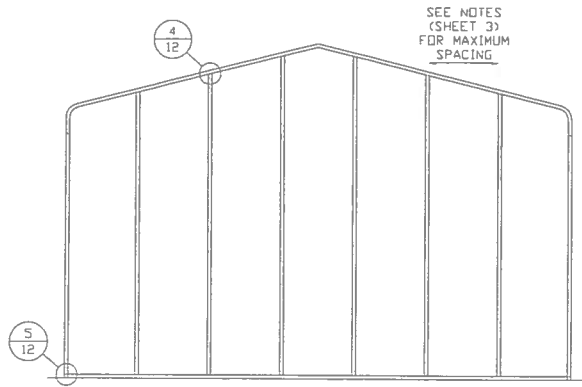
**DWG. NO: SK-3**

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

**REV: 4**

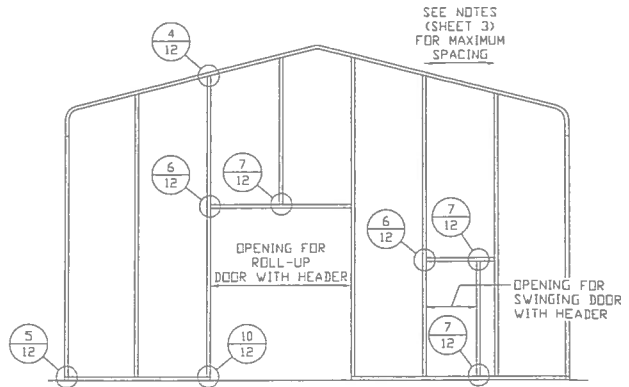
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## BOW RAFTER END WALL AND SIDE WALL OPENINGS



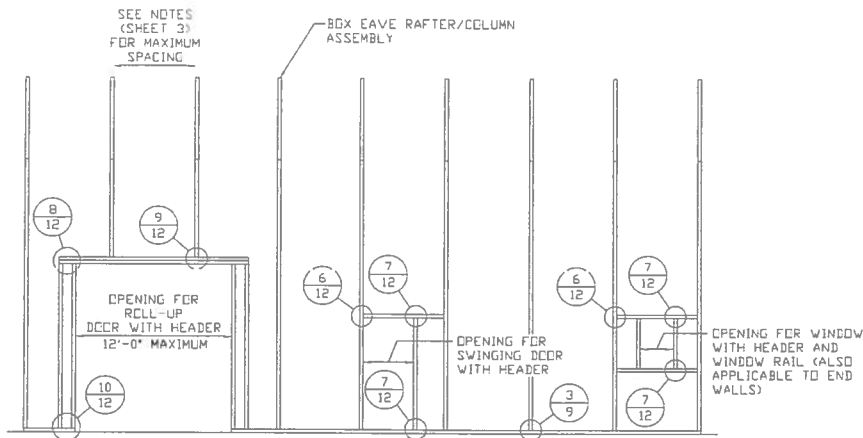
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS



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**PROJECT MGR: WSM**

**CLIENT: TBS**

**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 11**

**SCALE: NTS**

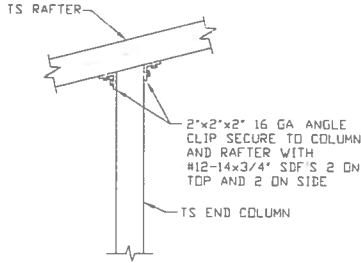
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**JOB NO:  
16022S/17300S**

**REV: 4**

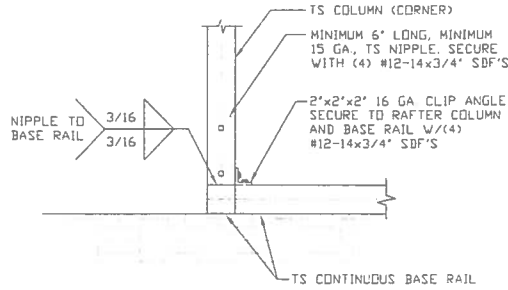
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## BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



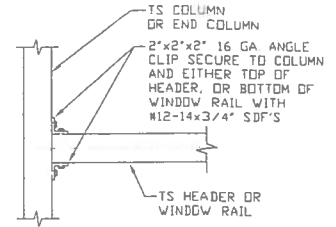
**4** **END COLUMN/RAFTER CONNECTION DETAIL**

SCALE: NTS



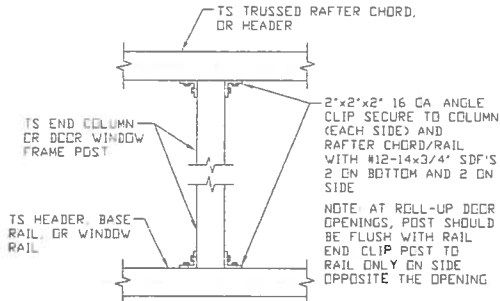
**5** **END COLUMN/BASE RAIL CONNECTION DETAIL**

SCALE: NTS



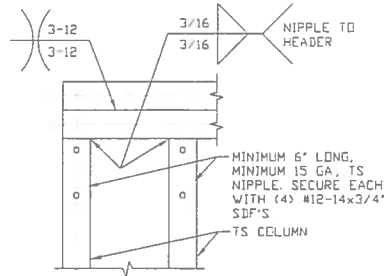
**6** **HEADER OR WINDOW RAIL TO COLUMN CONNECTION DETAIL**

SCALE: NTS



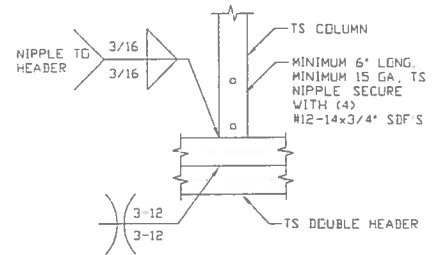
**7** **COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL**

SCALE: NTS



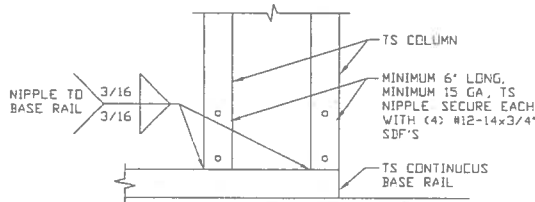
**8** **DOUBLE HEADER/COLUMN CONNECTION DETAIL**

SCALE: NTS



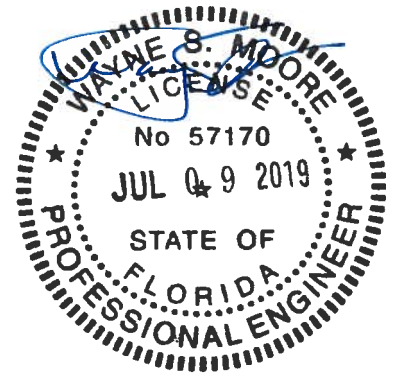
**9** **COLUMN/DOUBLE HEADER CONNECTION DETAIL**

SCALE: NTS



**10** **COLUMN/BASE RAIL CONNECTION DETAIL**

SCALE: NTS



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**DRAWN BY: LT**

**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: TBS**

**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SHT. 12**

**SCALE: NTS**

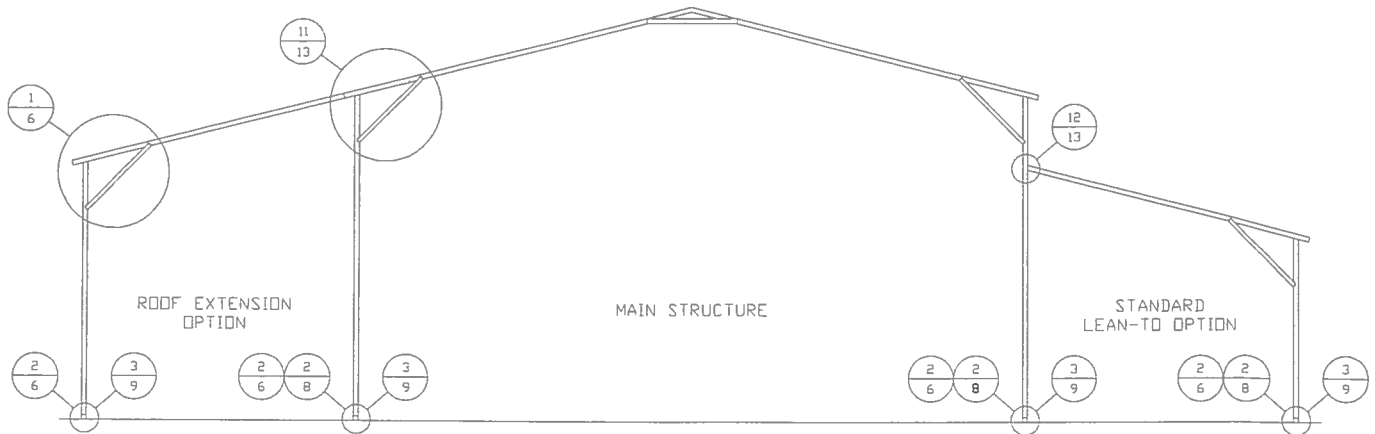
**DWG. NO: SK-3**

**JOB NO:  
160225/17300S**

**REV: 4**

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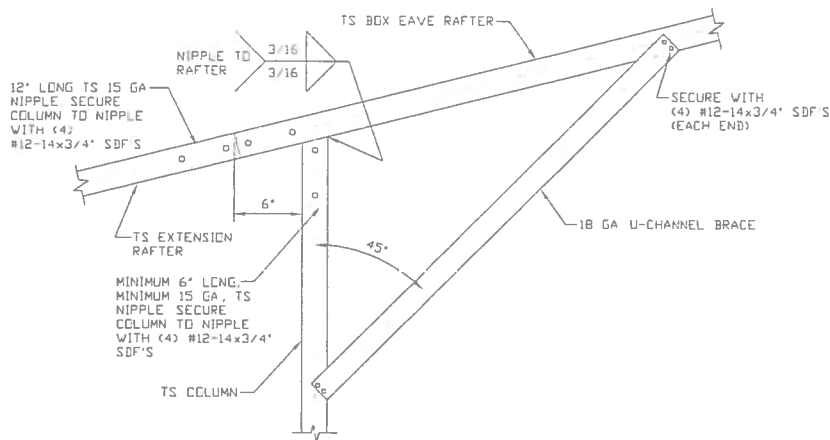
## BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS

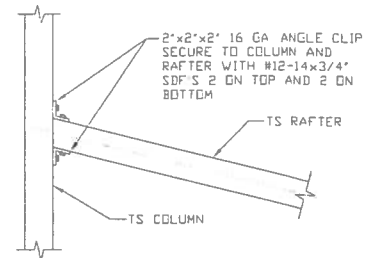
MAXIMUM WIDTH OF SINGLE MEMBER RAFTER LEAN-TO IS 16'-0"



11A

**SIDE EXTENSION RAFTER/COLUMN DETAIL**

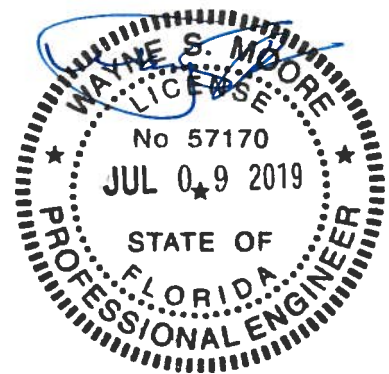
SCALE: NTS



12

**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL**

SCALE: NTS



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PROJECT MGR: WSH

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

DATE: 12-18-17

SHT. 13

SCALE: NTS

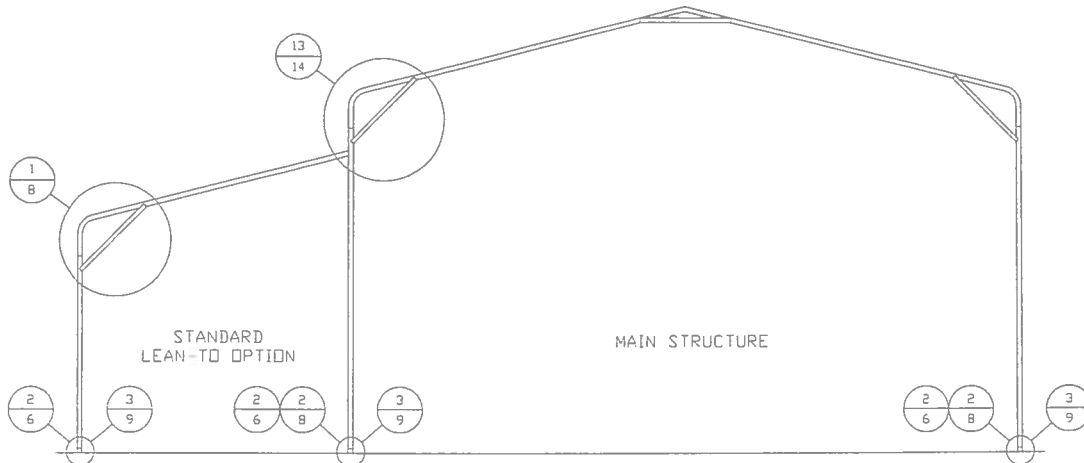
DWG. NO: SK-3

JOB NO:  
16022S/17300S

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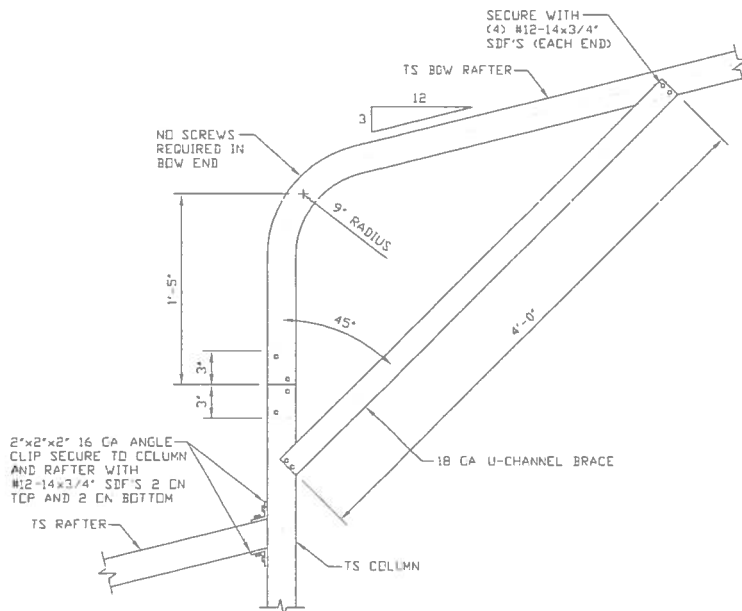
## BOW RAFTER LEAN-TO OPTIONS



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

SCALE: NTS

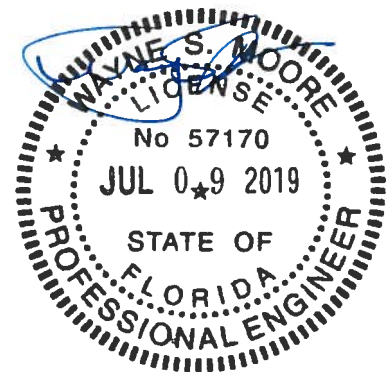
MAXIMUM WIDTH OF SINGLE MEMBER RAFTER LEAN-TO IS 16'-0"



13

**SIDE EXTENSION RAFTER/COLUMN DETAIL**

SCALE: NTS



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

DRAWN BY: LT

CHECKED BY: PDM

PROJECT MGR: WSM

CLIENT: TBS

**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

DATE: 12-18-17

SHT. 14

SCALE: NTS

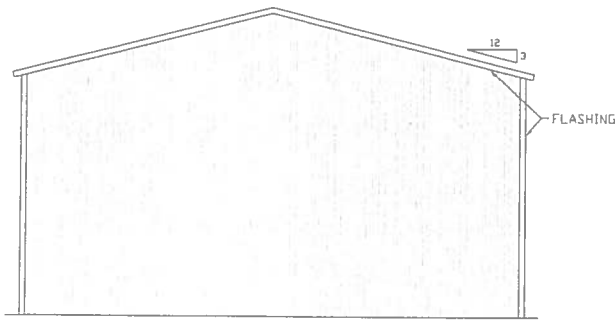
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JOB NO:  
16022S/17300S

REV: 4

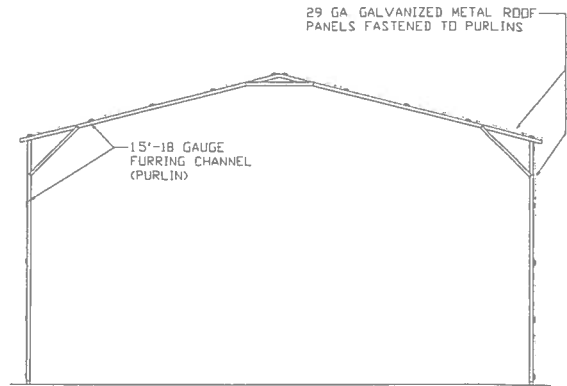
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## BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



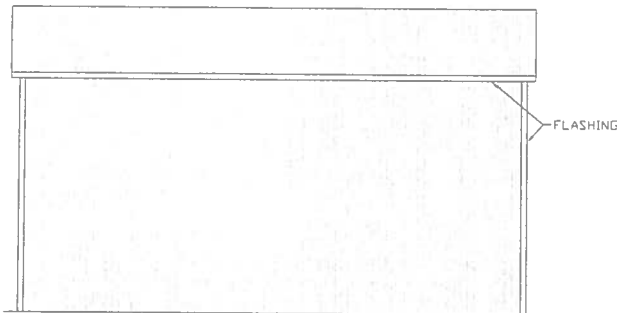
**TYPICAL END ELEVATION  
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



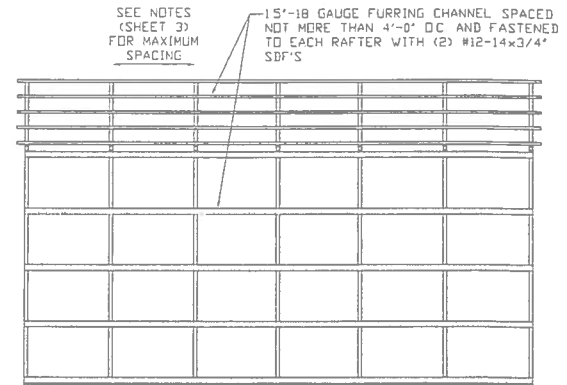
**TYPICAL SECTION VERTICAL  
ROOF/SIDING OPTION**

SCALE: NTS



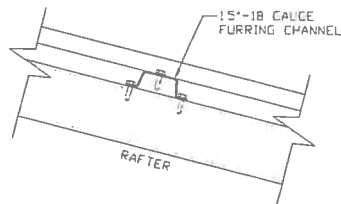
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF/SIDING OPTION**

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.**

**DRAWN BY: LT**

**CHECKED BY: PDH**

**PROJECT MGR: VSH**

**CLIENT: TBS**

**TUBULAR BUILDING SYSTEMS  
30'-0"x20'-0" ENCLOSED BUILDING EXP. B**

**DATE: 12-18-17**

**SCALE: NTS**

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

**SHT. 15**

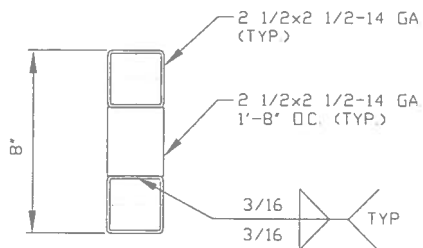
**DWG. NO: SK-3**

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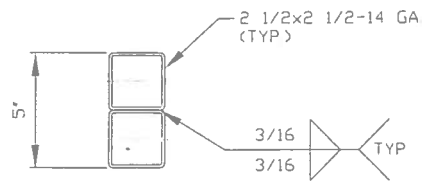


## OPTIONAL DOOR HEADER



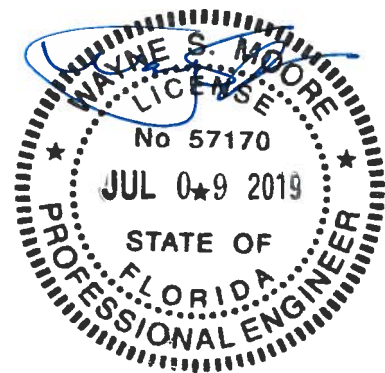
HEADER DETAIL FOR DOOR  
OPENINGS 12'-0" < LENGTH ≤ 15'-0"

SCALE: NTS



HEADER DETAIL FOR DOOR  
OPENINGS LENGTH ≤ 12'-0"

SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: TBS

TUBULAR BUILDING SYSTEMS  
30'-0" x 20'-0" ENCLOSED BUILDING EXP. B

DATE: 12-18-17

SCALE: NTS

DWG. NO: SK-3

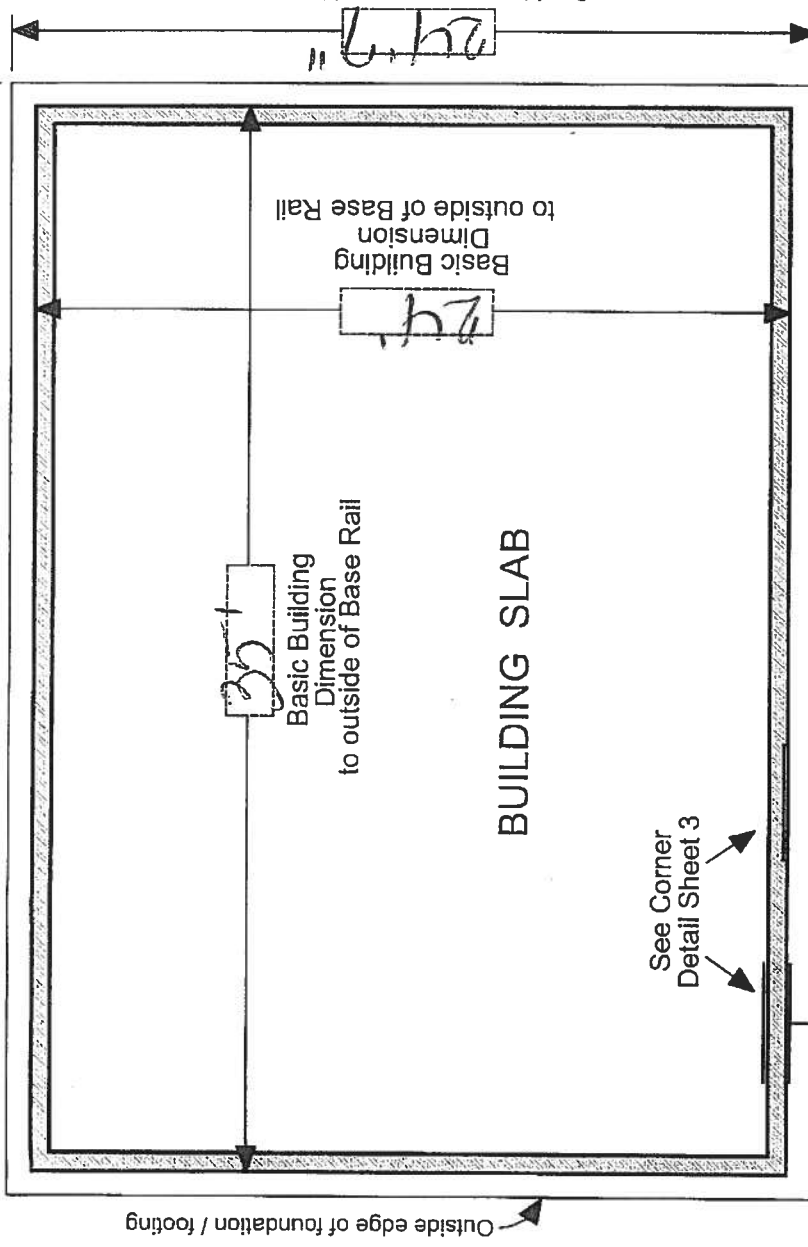
JOB NO:  
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Outside measurement of foundation  
Equals Basic Building Dimension  
plus Seven (7) inches

35'17"



Outside edge of foundation / footing

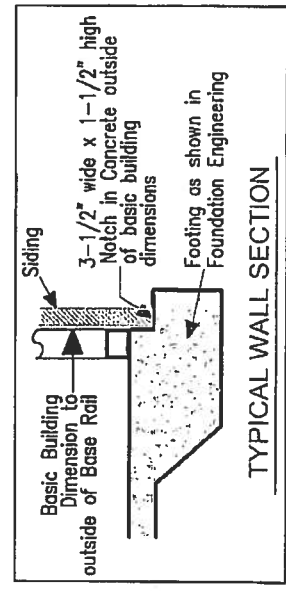
Basic Building Dimension to outside of Base Rail

BUILDING SLAB

See Corner Detail Sheet 3

Building Base Rail

3-1/2" wide x 1-1/2" high Notch in Concrete outside of basic building dimensions



TYPICAL WALL SECTION

# TYPICAL BUILDING FOUNDATION MEASUREMENTS



## IMPORTANT - NOTES



Record Measurements in these spaces provided

All basic building dimensions are to the outside of the frame Base Rail and DO NOT INCLUDE the 3-1/2" x 1-1/2" notch in the concrete footing

See Sheet 3 of 3 for Detail of Building corner configuration

Outside measurement of foundation Equals Basic Building Dimension plus Seven (7) inches

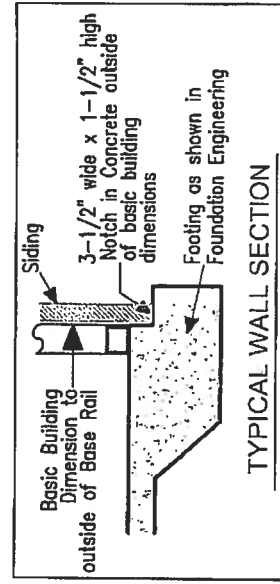
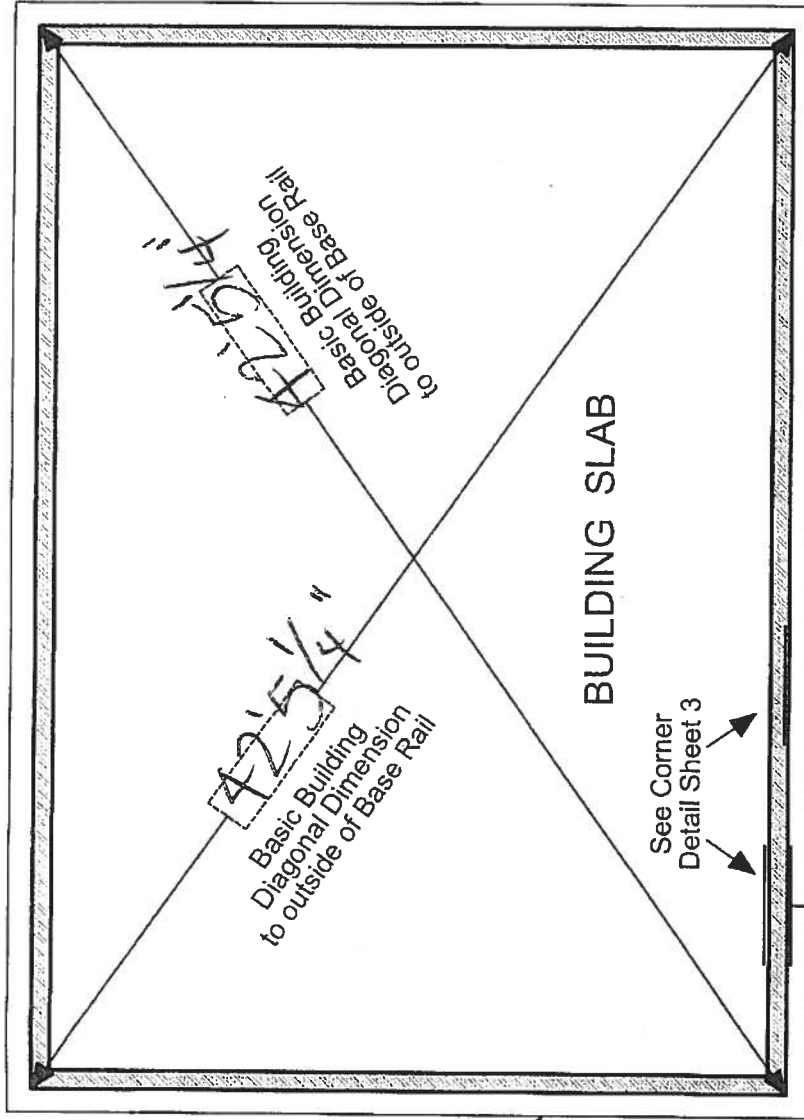
24'7"

## IMPORTANT - NOTES

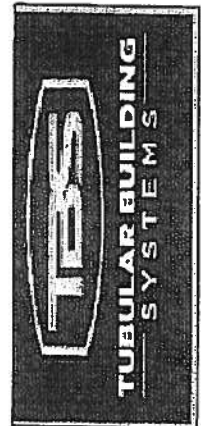
Record Measurements  
in these spaces provided

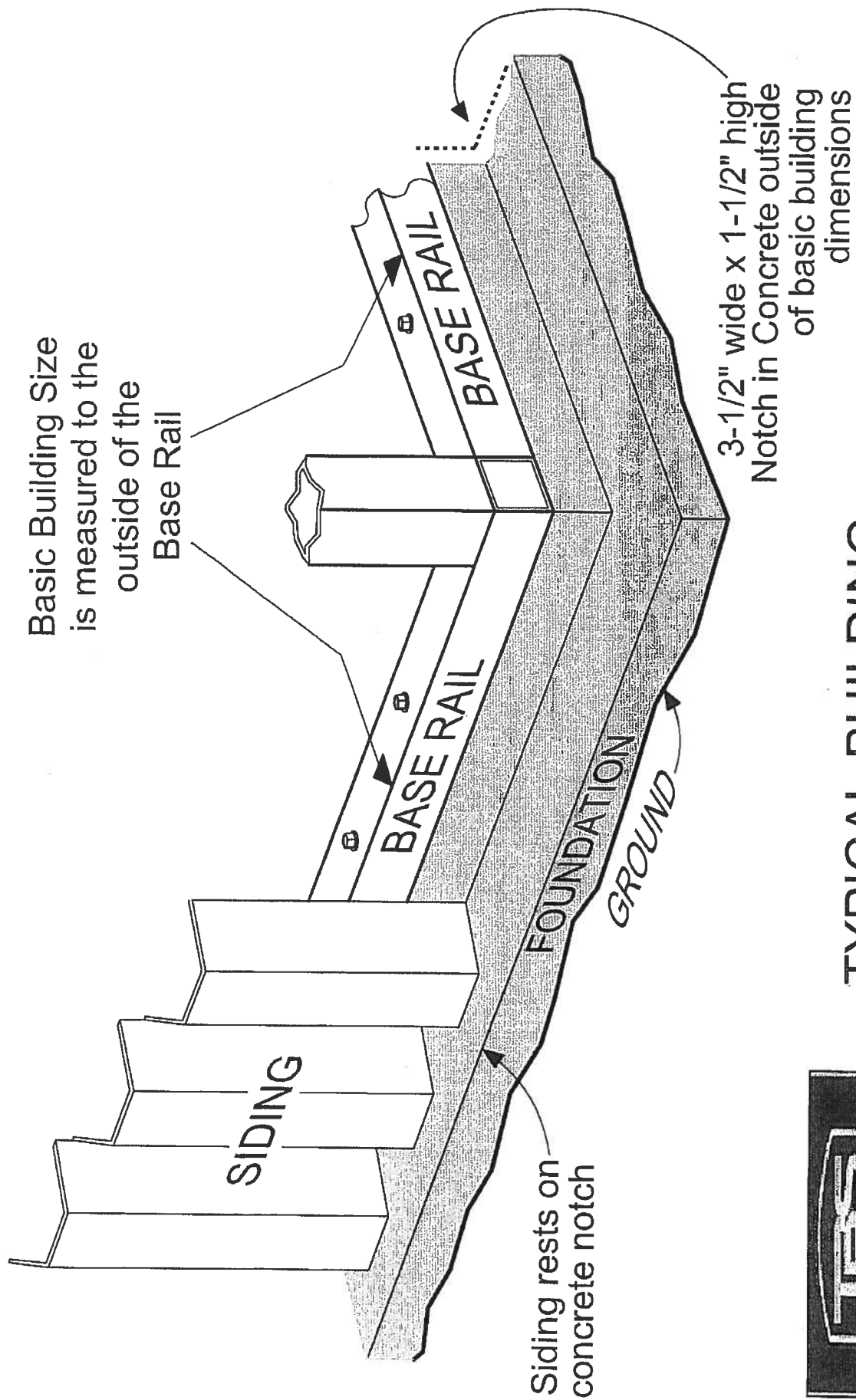
All basic building diagonal dimensions  
are to the outside corner of the  
frame Base Rail and DO NOT  
INCLUDE the 3-1/2" x 1-1/2"  
notch in the concrete footing

See Sheet 3 of 3  
for Detail of Building  
corner configuration



## TYPICAL BUILDING FOUNDATION MEASUREMENTS DIAGONALS





## TYPICAL BUILDING

### CORNER DETAIL

