

STRUCTURAL DESIGN

ENCLOSED BUILDING EXPOSURE B

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

29 July 2021 **Revision 6** M&A Project No. 16022S/17300S/20352S

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

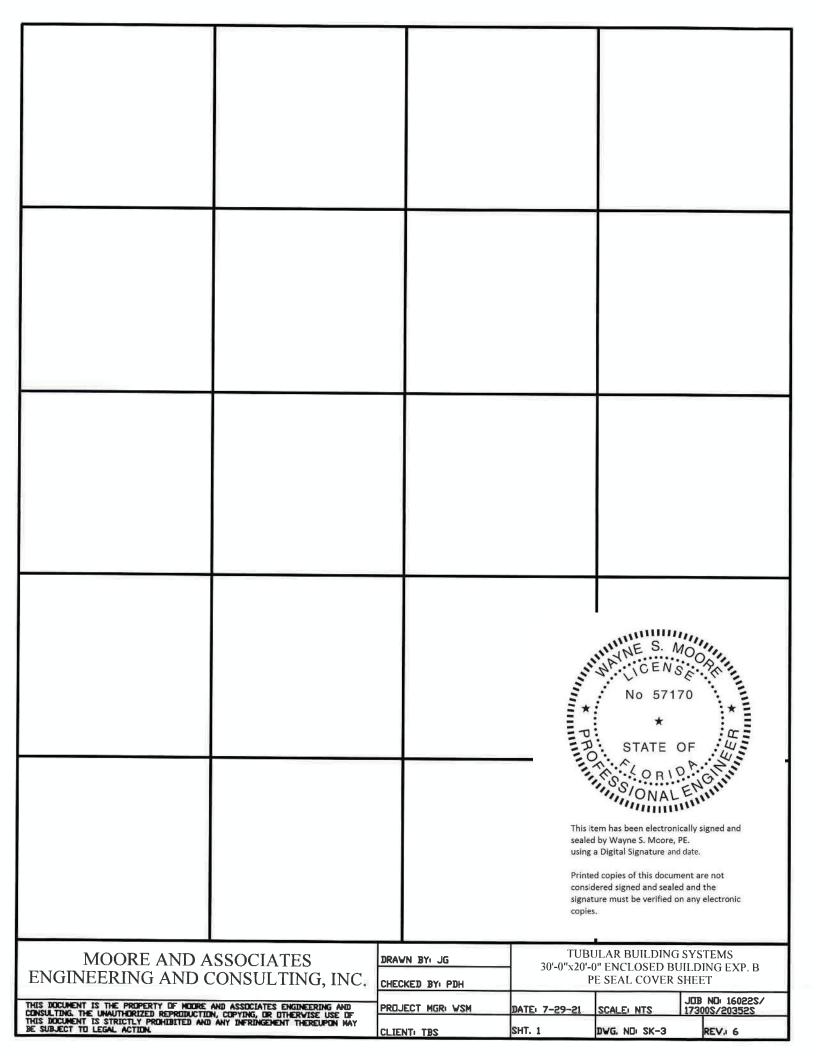
Digitally signed Wayne by Wayne S Moore S Moore Date: 2022.09.12 15:03:17 -04'00'



ENGINEERING AND CONSULTING



This item has been electronically signed and sealed by Wayne S. Mcore, PE. using a Digital Signature and date.



DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3 Sheet 4	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 5	TYPICAL SIDE AND END ELEVATIONS
SHEET 5A	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER) TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 5B	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 6	TYPICAL RAFTER COLUMN CONNECTION DETAILS (LACED COLUMN)
SHEET 5A	TYPICAL RAFTER COLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 6B	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 7	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOW RAFTER)
SHEET 7A	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOW RAFTER)
SHEET 8	TYPICAL RAFTER COLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET BA	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 9	BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED
SHEET 9A	OPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED
SHEET 9B	BASE RAIL ANCHURAGE UPTION
SHEET 90	BASE RAIL ANCHURAGE UPTIONS
SHEET 10	BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS
SHEET 11	BOW RAFTER END WALL AND SIDE WALL OPENINGS
SHEET 12	CONNECTION DETAILS
SHEET 13	CONNECTION DETAILS
SHEET :4	BOX EAVE RAFTER LEAN-TO OPTIONS
SHEET 14A	BOX EAVE RAFTER LEAN-TO OPTIONS
SHEET 15	BOW RAFTER LEAN-TO OPTIONS
SHEET 16	VERTICAL ROOF/SIDING OPTION
SHEET 17	VERTICAL ROOF/SIDING OPTION OPTIONAL DOOR HEADER FLOOD VENT DETAIL STAND-AUTINE STEM WALL DETAIL
SHEET 18	FLOOD VENT DETAIL
SHEET 19	STAND-ALONE STEM WALL DETAIL
SHEET 20	VERTICAL SLIDING WINDOW DETAIL
SHEET 21	STRIP FOOTING OPTION
	D. STATE OF
	STAND-ALONE STEM WALL DETAIL VERTICAL SLIDING WINDOW DETAIL STRIP FOOTING OPTION STATE OF VORION STATE OF
	ONALE

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: PDH	63 	ULAR BUILDING SE INDUSTRIA KE CITY, FLORI O" ENCLOSED B	L CIRCLE
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PROJECT MGRI WSM	DATE: 7-29-21	SCALE: NTS	JOB ND: 160225/ 173005/203525
THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENTI TBS	SHT. 2	DWG. NDI SK-3	REV. 6

INSTALLATION NOTES AND SPECIFICATIONS

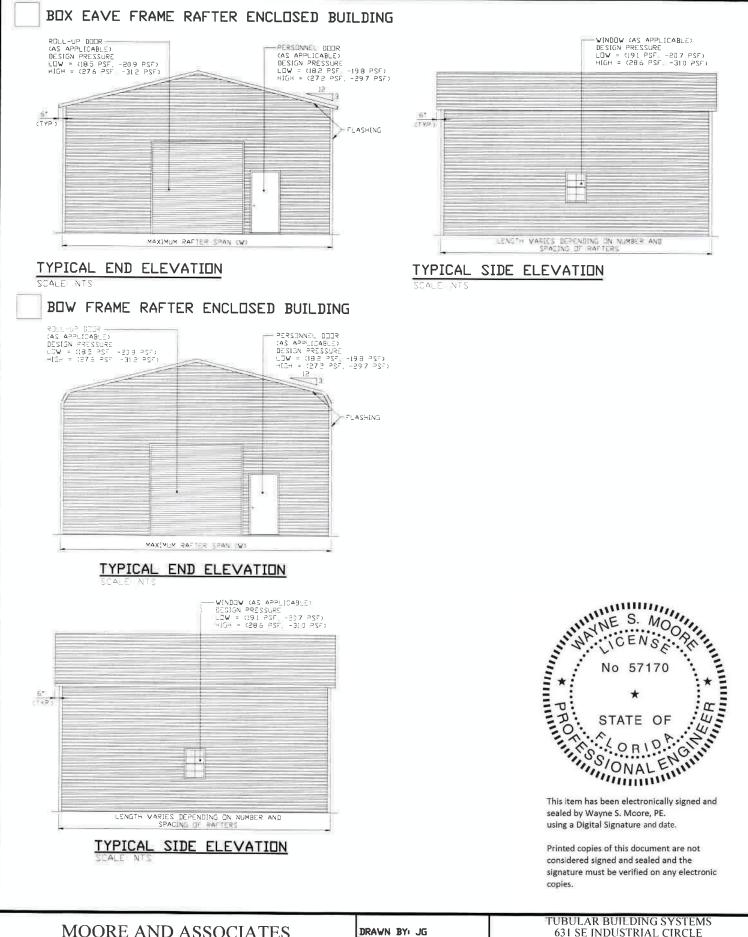
- 1 DESIGN IS FOR A MAXIMUM 30'-O" WIDE × 20'-O" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC) 2015 IBC. AND 2018 IBC

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 = 4.0 FEET
6	END WALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
7	RISK CATEGORY I
8	WIND EXPOSURE CATEGORY B
9	SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 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)
10	AVERAGE FASTENER SPACING UN-CENTERS ALONG RAFTERS OR PURLINS AND POSTS INTERIOR = 9" OR END = 6" (MAX)
11	FASTENERS CONSIST OF #12-14×3/4" 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 ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT
12	STANDARD ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 5' OF EACH COLUMN
13	STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/WELDED NUT × 30° LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (≦ 138 MPH NOMINAL) WIND SPEEDS ONLY, OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION
14	WIND FORCES SOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE: SDIL SITE CLASS = D RISK CATEGORY I R= 325 Iz= 10 Sps= 1522 g V= C_SW SpI= 0839 g

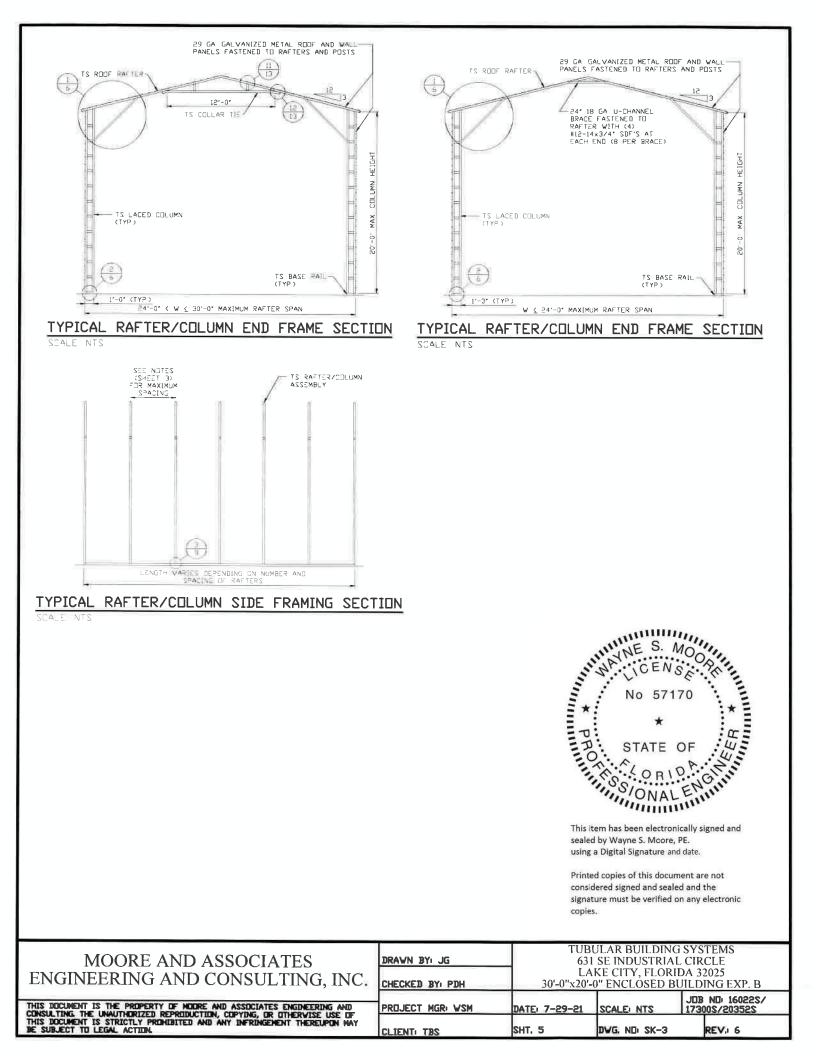


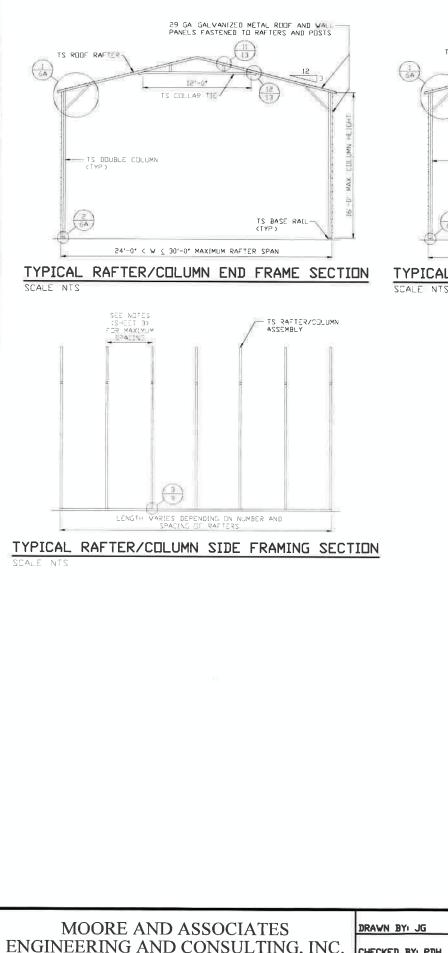
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

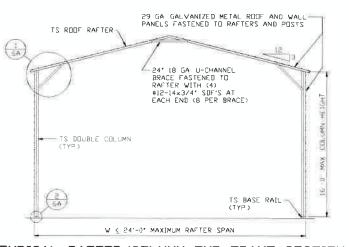
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY JG	631 LA	JLAR BUILDING SE INDUSTRIAL KE CITY, FLORIE 0" ENCLOSED BU	CIRCLE DA 32025
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND				JDB ND: 16022S/ 17300S/20352S
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DICLIMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY DE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT. Э	DWG. NO: SK-3	REV. 6



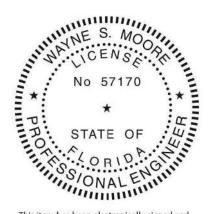
MOORE AND ASSOCIATES	DRAWN BYI JG		SE INDUSTRIAL	
ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH		KE CITY, FLORIE)" ENCLOSED BU	
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PRDJECT MGRI WSM	DATE: 7-29-21	SCALE: NTS	JDB ND: 160225/ 173005/203525
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY DE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT, 4	DWG. ND: SK-3	REV. 6





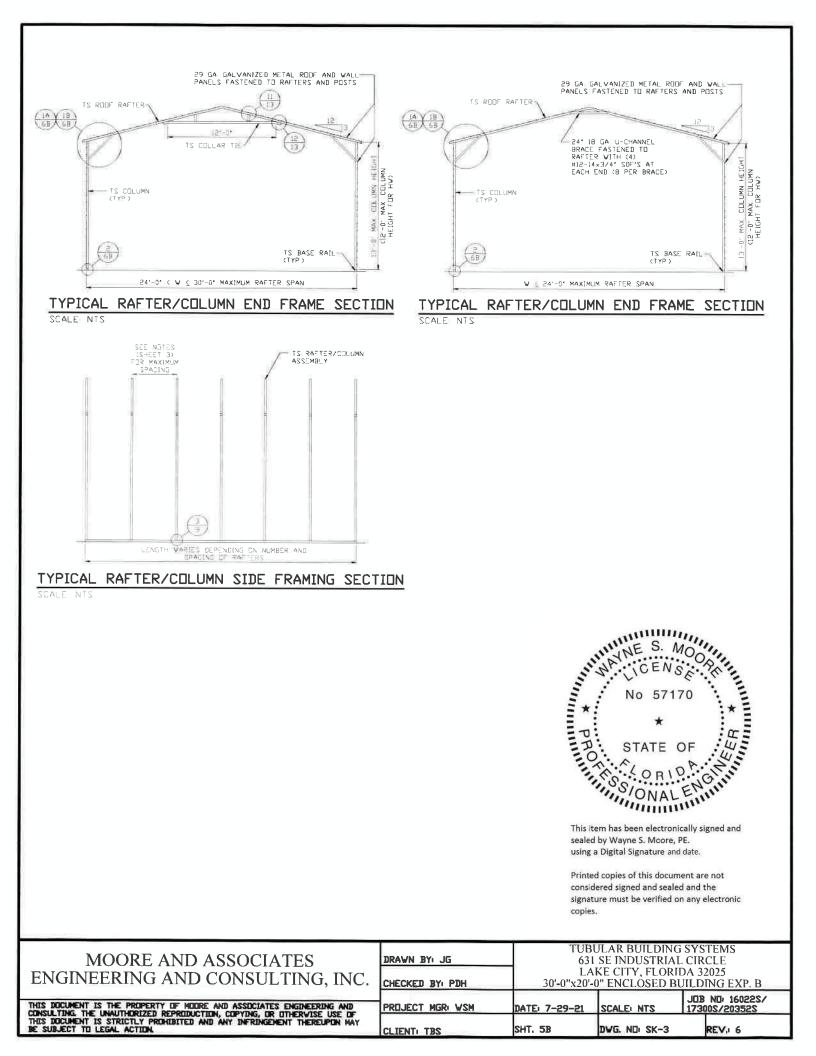


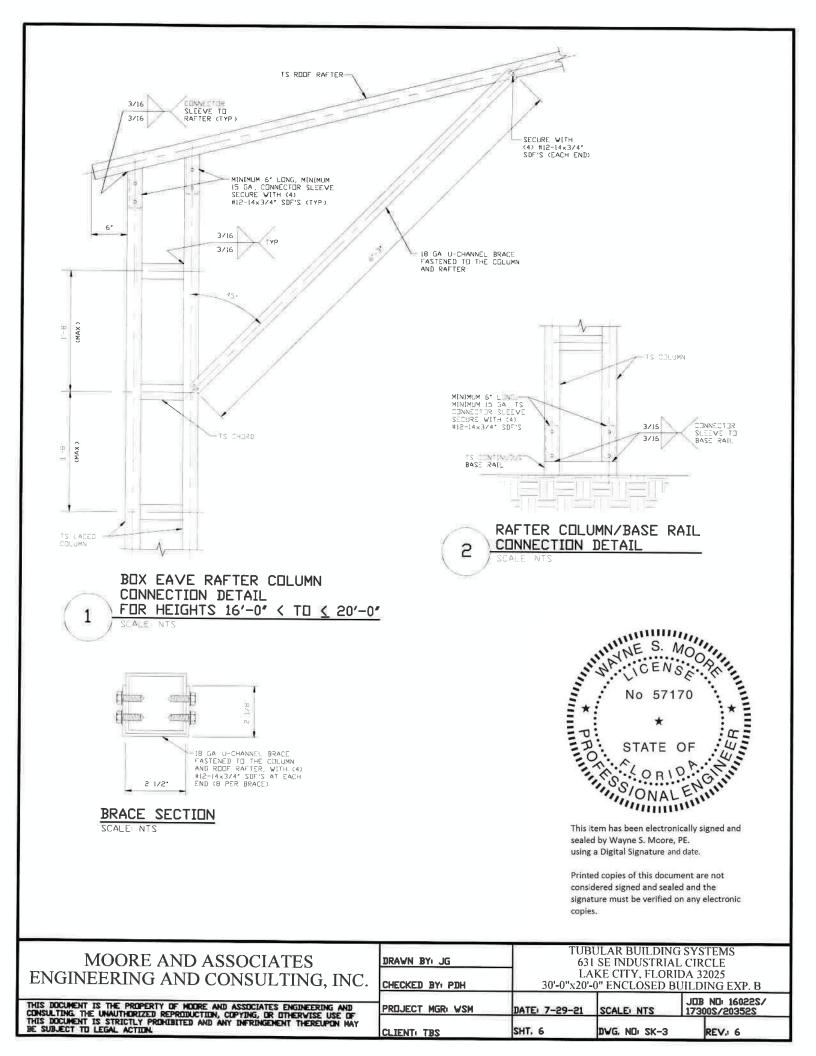
TYPICAL RAFTER/COLUMN END FRAME SECTION

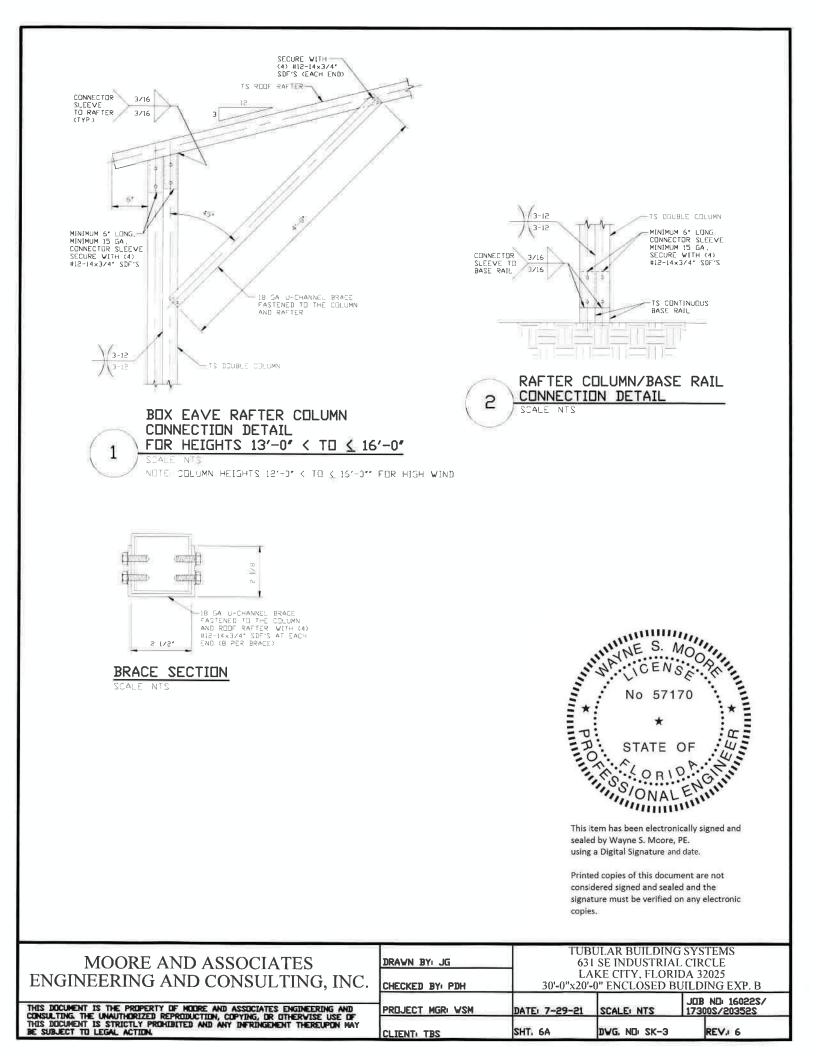


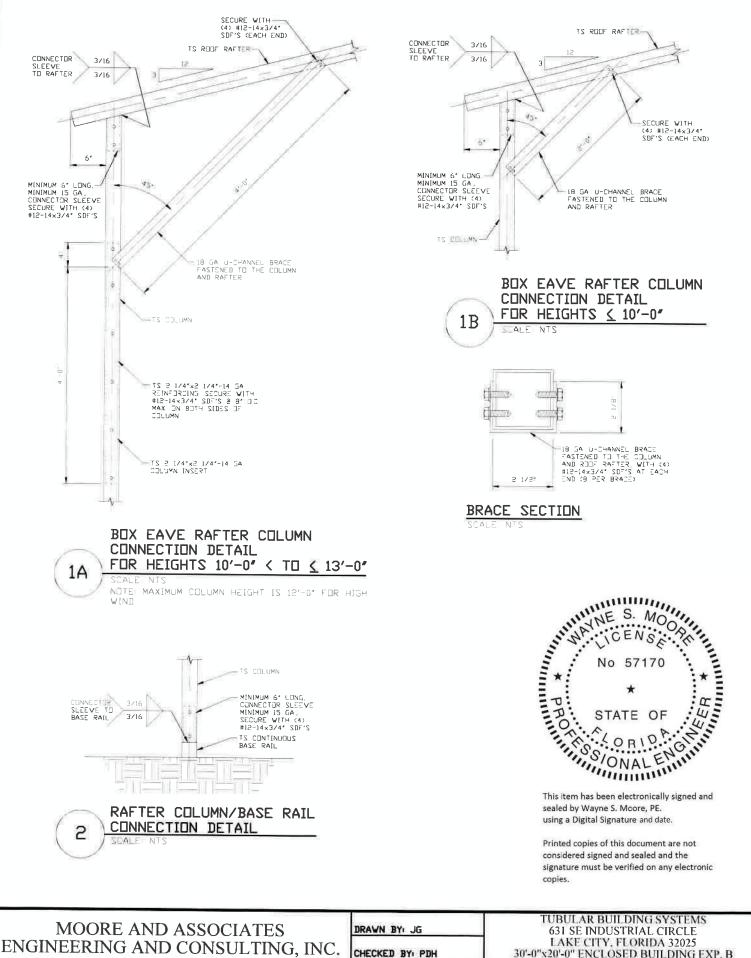
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: PDH	631 LAI	JLAR BUILDING SE INDUSTRIAL KE CITY, FLORII)" ENCLOSED BU	CIRCLE DA 32025
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.			SCALE: NTS DWG. ND: SK-3	JDB ND: 16022S/ 17300S/20352S REV.: 6









THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.
 DRAWN BY: JG
 631 SE INDUSTRIAL CIRCLE

 LAKF CITY, FLORIDA 32025

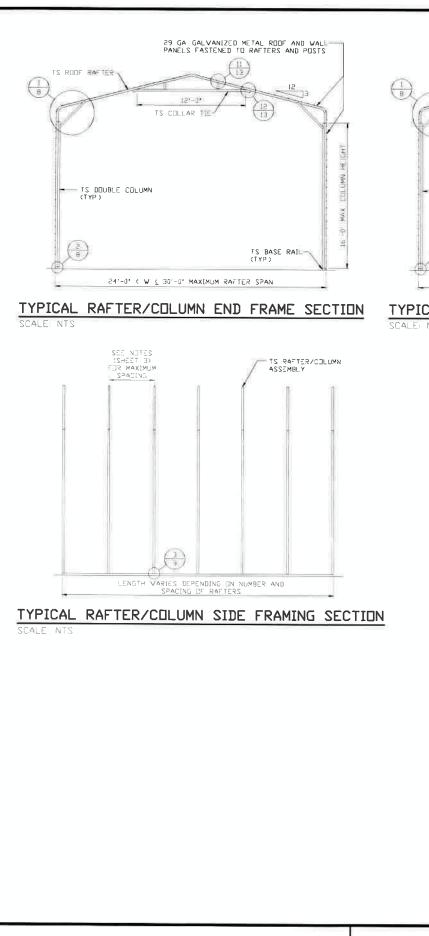
 CHECKED BY: PDH
 30'-0"x20'-0" ENCLOSED BUILDING EXP. B

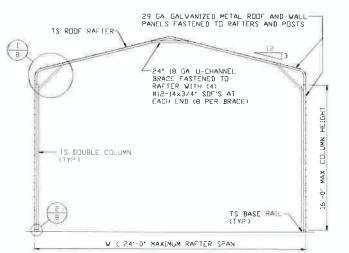
 PREJECT MGR: VSM
 DATE: 7-29-21

 SCALE: NTS
 JGB ND: 16022S/

 IT300S/20352S

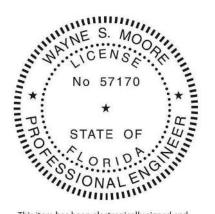
 CLIENT: TBS
 SHT. 6B





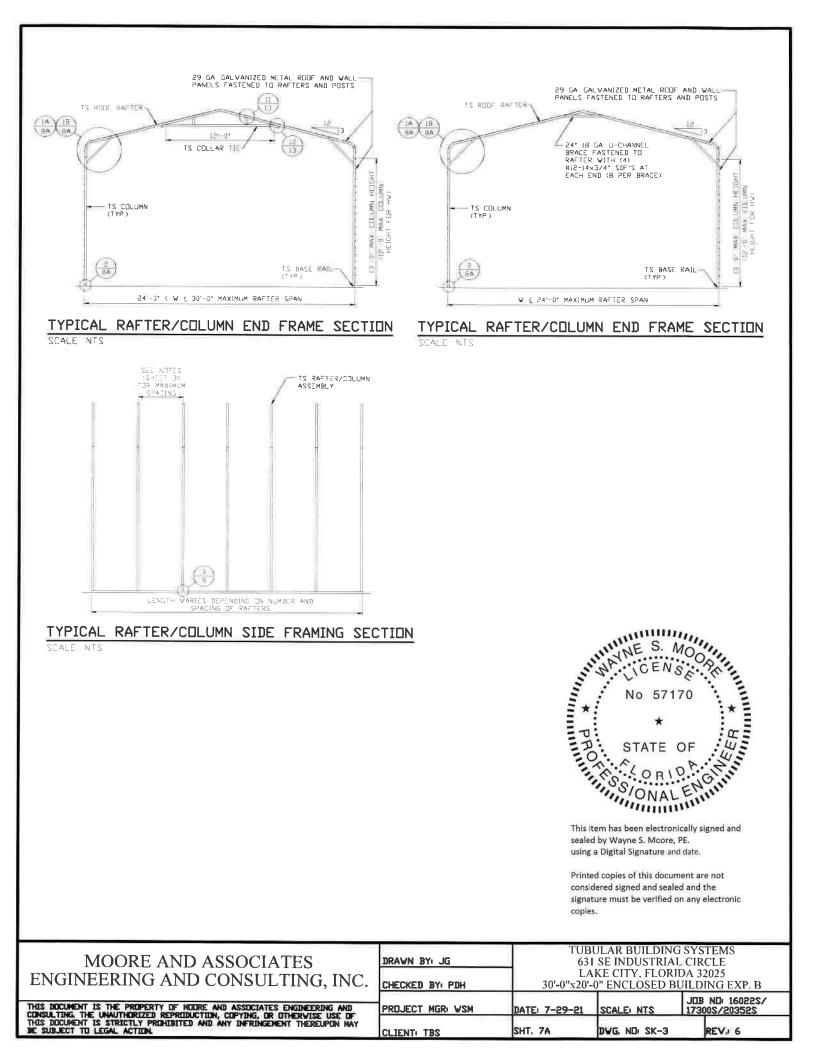
TYPICAL RAFTER/COLUMN END FRAME SECTION

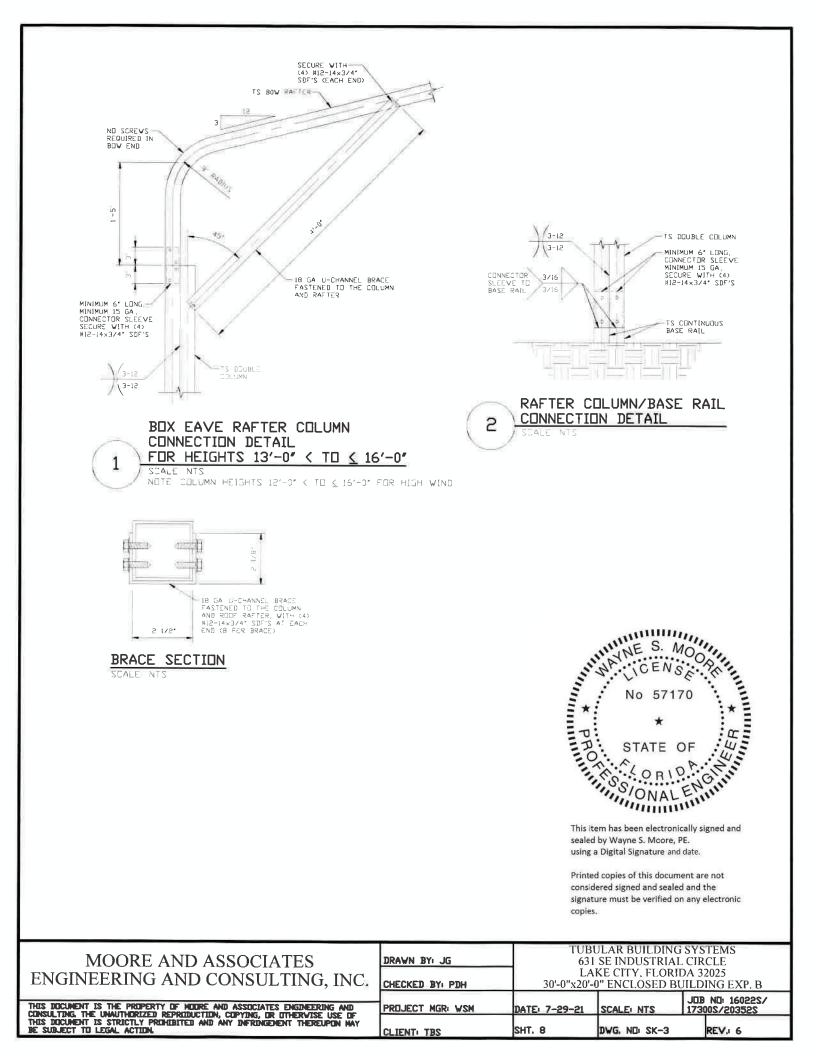
SCALE: NTS

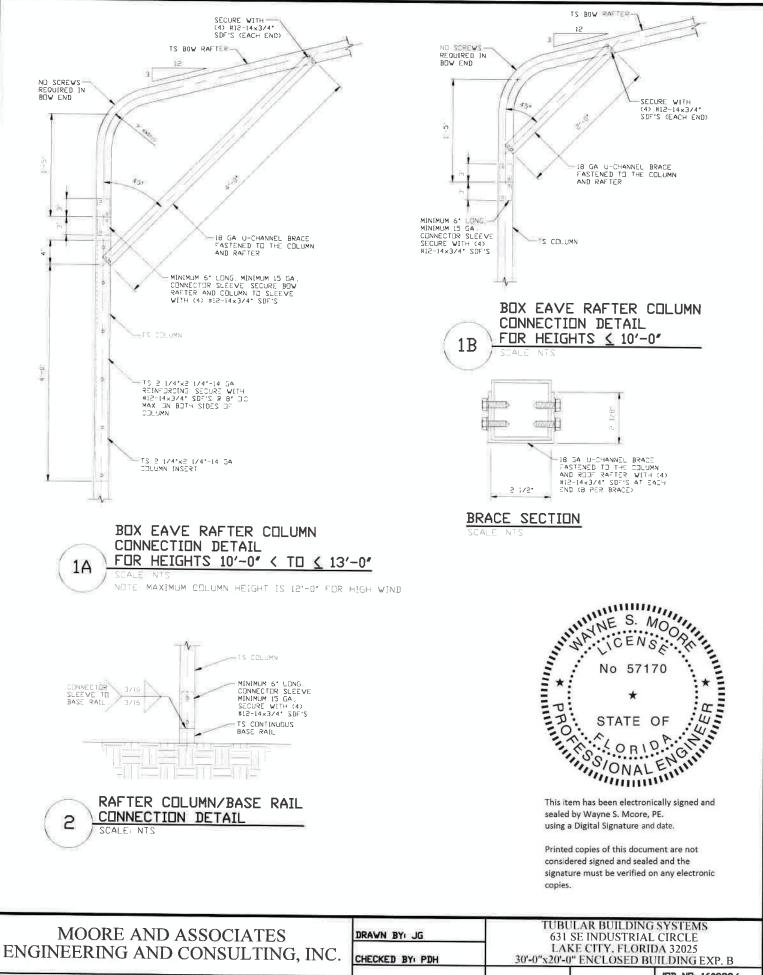


This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAVN BYI JG	631 LA	JLAR BUILDING S SE INDUSTRIAL KE CITY, FLORID D" ENCLOSED BUI	CIRCLE A 32025
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.				JOB NO: 16022S/ 17300S/20352S REV.: 6







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
 LAKE CITY, FLORIDA 32025

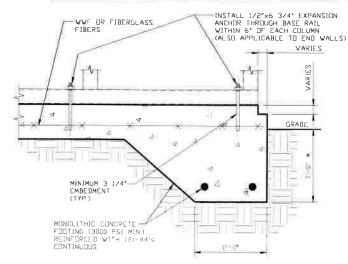
 CHECKED BY: PDH
 30'-0" \$20'-0" ENCLOSED BUILDING EXP. B

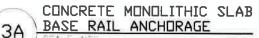
 PRDJECT MGR: VSM
 DATE: 7-29-21
 SCALE: NTS
 JDB ND: 160225/ 173005/203525

 CLIENT: TBS
 SHT. 8A
 DVG, ND: SK-3
 REV. 6

BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED

3B





MINIMUM ANCHOR EDGE DISTANCE IS 4" * COORDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST DEPTH REQ

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN ON MINIMUM SOIL BEARING CAPACITY OF 1.500 PSF

CONCRETE

CUNCRETE 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

AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2 INCHES ELSEWHERE

REINFORCING STEEL

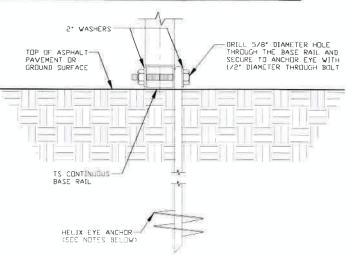
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 50 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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

- REINFORCEMENT IS BENT COLD THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS 2
- 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 LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL USE MINIMUM (2) 8° HELICES WITH MINIMUM 60 INCH EMBEDMENT



GROUND BASE HELIX ANCHORAGE SCALE NTS

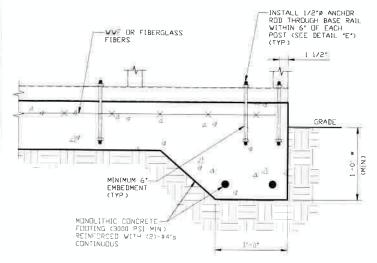
(CAN BE USED FOR ASPHALT) * COORDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST DEPTH REQ



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BYI JG	631 LA	JLAR BUILDING SE INDUSTRIAL KE CITY, FLORID)" ENCLOSED BU	CIRCLE A 32025
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PREJECT MGRI WSM	DATE: 7-29-21		JDB ND: 16022S/ 17300S/20352S REV.: 6

OPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED



CONCRETE MONOLITHIC SLAB

MINIMUM ANCHER EDGE DISTANCE IS 1 1/2" * COORDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST DEPTH RED

GENERAL NOTES

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

CONCRETE

3C

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

COVER OVER REINFORCING STEEL:

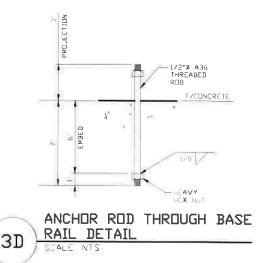
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND I 1/2 INCHES ELSEWHERE

REINFORCING STEEL

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

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

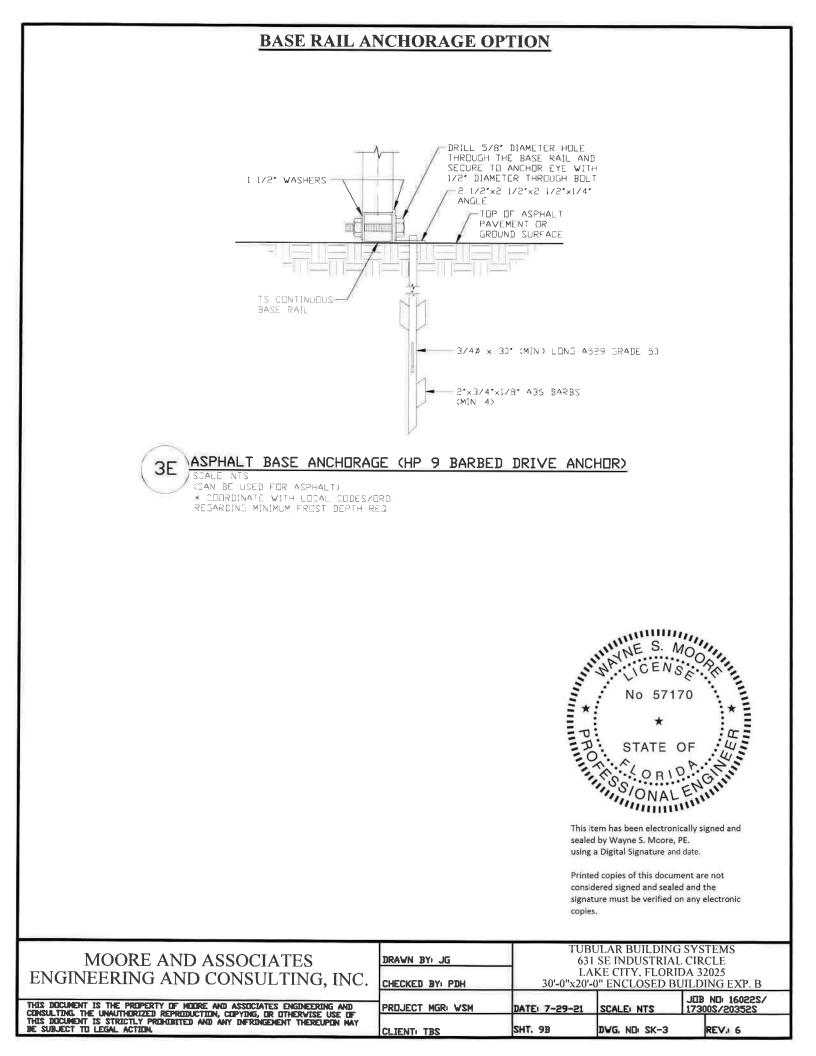
- 1 REINFORCEMENT IS BENT COLD
- 2 THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS 3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- 3 REINFURCEMENT PARTIALLY EMBEDDED IN CUNCRETE SHALL NUT BE FIELD BENT

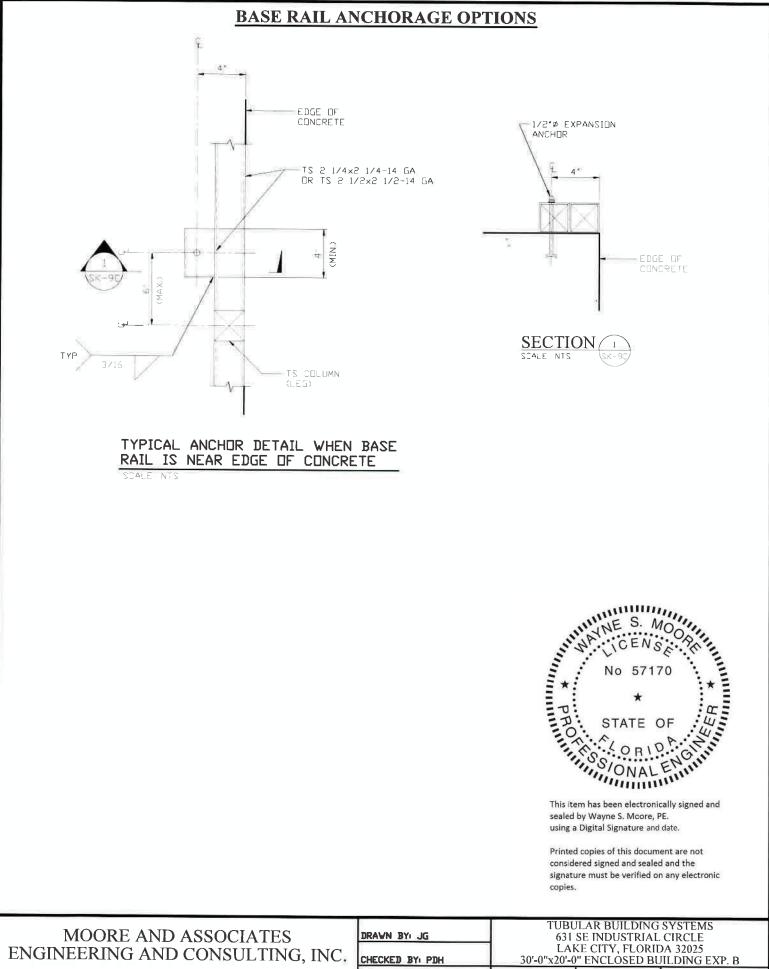




This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG Checked By: PDH	631 LA	ULAR BUILDING SE INDUSTRIA KE CITY, FLORI 0" ENCLOSED B	LCIRCLE
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PREJECT MGRI WSM	DATE: 7-29-21 SHT, 9A	SCALE: NTS	JUB ND: 160225/ 173005/203525 REV: 6



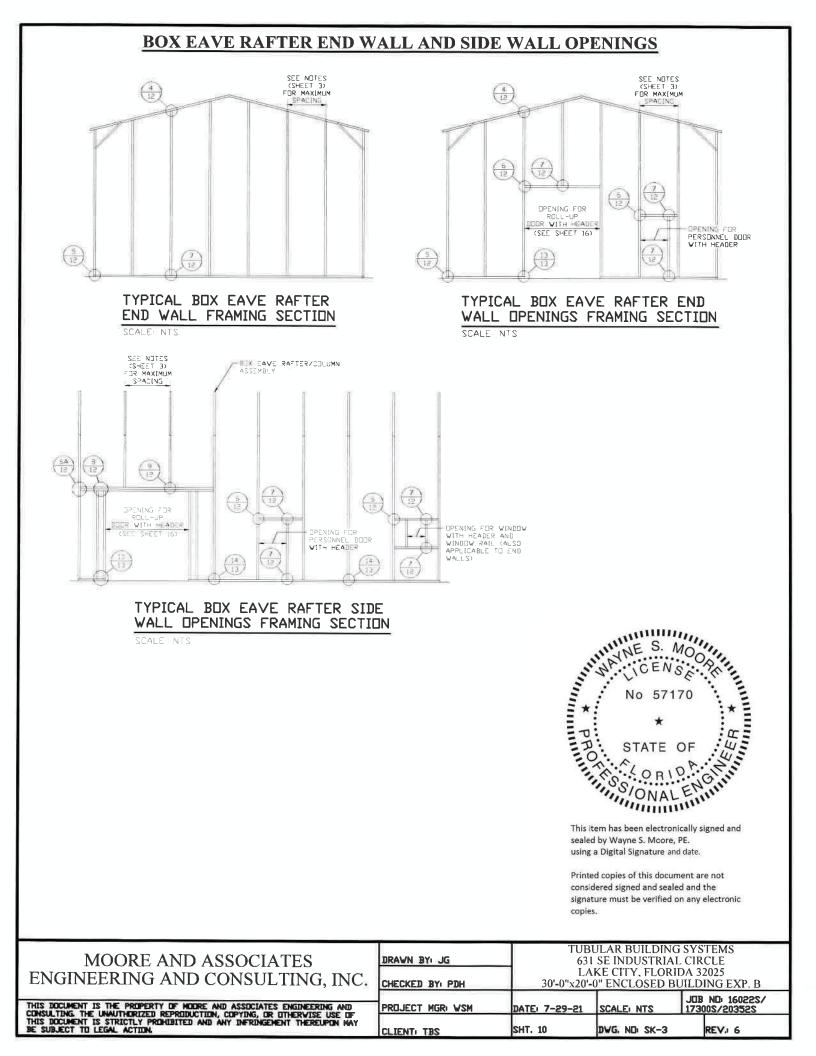


THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.
 LAKE CITY, FLORIDA 32025

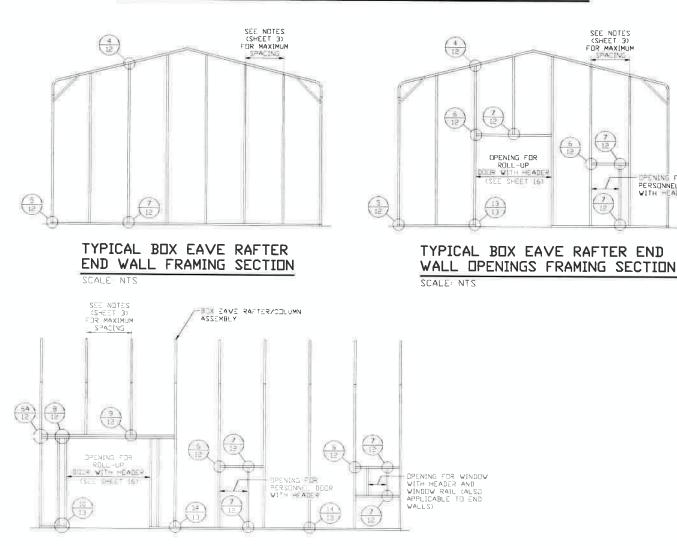
 CHECKED BY: PDH
 30'-0"x20'-0" ENCLOSED BUILDING EXP. B

 PRDJECT MGR: WSM
 DATE: 7-29-21
 SCALE: NTS
 JDB ND: 16022S/ 17300S/20352S

 CLIENT: TBS
 SHT. 9C
 DWG. ND: SK-3
 REV. 6



BOW RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS



SEE NOTES (SHEET 3) FOR MAXIMUM

7

(2)

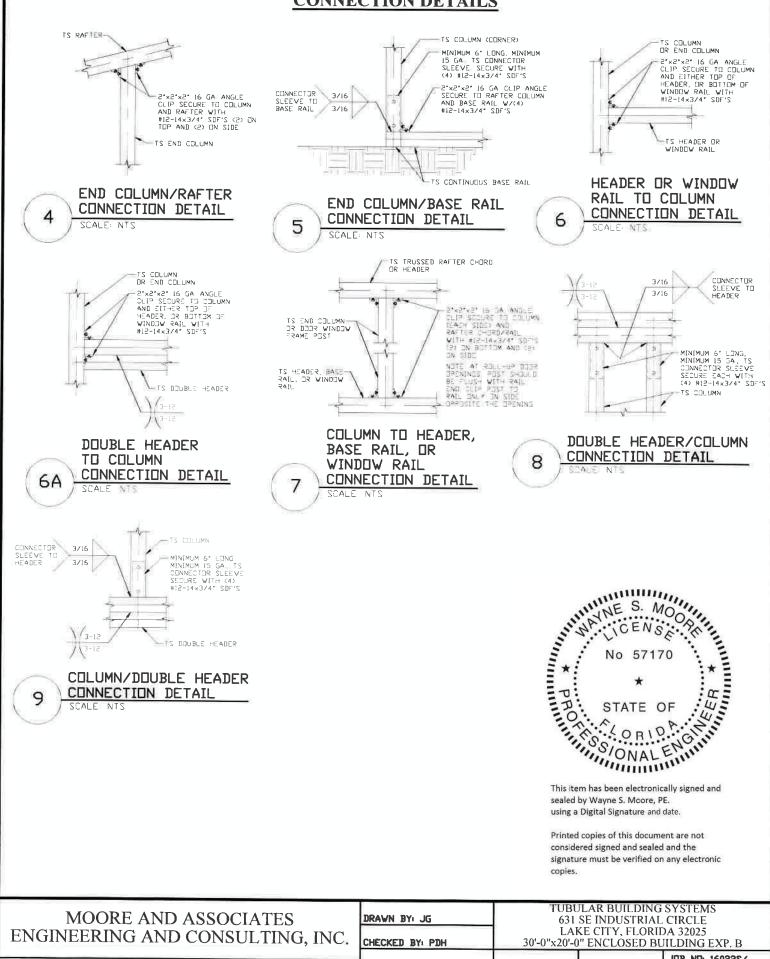
ENING FOR PERSONNEL DOOR

(6 12)

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

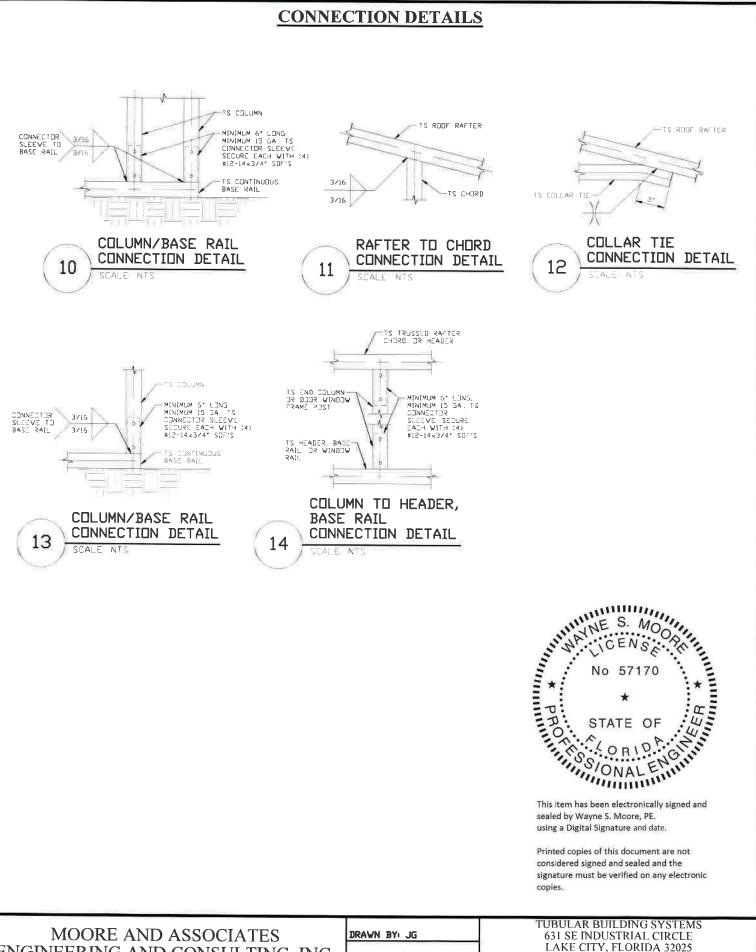
ENGINEEPING AND CONSULTING INC.	DRAWN BY: JG CHECKED BY: PDH	631 LA	JLAR BUILDING SE INDUSTRIAL KE CITY, FLORII 0" ENCLOSED BU	CIRCLE DA 32025
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGRI WSM		SCALE: NTS	JDB ND: 16022S/ 17300S/20352S

CONNECTION DETAILS

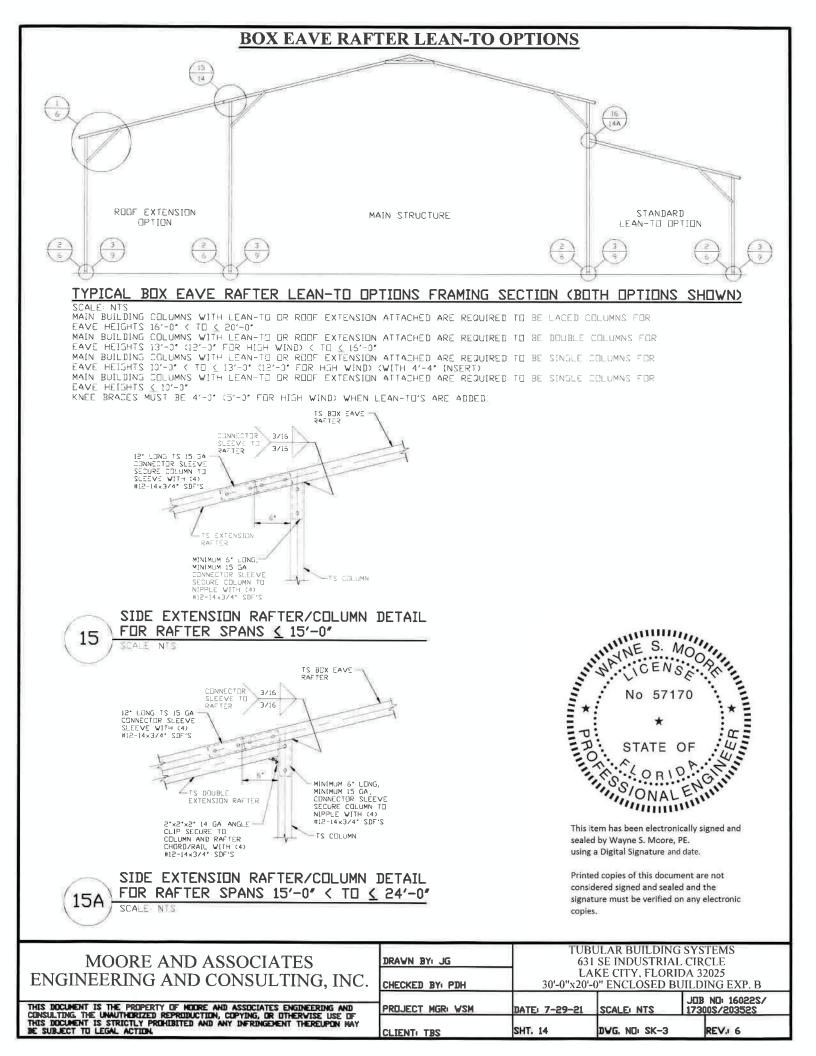


THIS DOCUMENT IS THE PROPERTY OF MODIRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR DITHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

JOB ND 160225/ PROJECT MGRI VSM DATE: 7-29-21 SCALE: NTS 173005/203525 SHT. 12 DWG. NDI SK-3 REV. 6 CLIENT: TBS

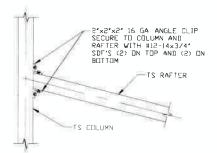


ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH		KE CITY, FLORIE)" ENCLOSED BU	
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PROJECT MGRI WSM	DATE: 7-29-21	SCALE: NTS	JOB NO 160225/ 173005/203525
THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT. 13	DWG. ND: SK-3	REV. 6



BOX EAVE RAFTER LEAN-TO OPTIONS

16A



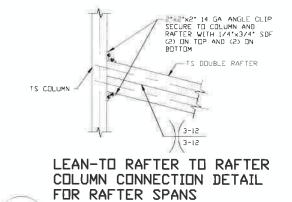
LEAN-TO RAFTER TO RAFTER

COLUMN CONNECTION DETAIL

FOR RAFTER SPANS < 15'-0"

16

SCALE NTS



15'-0" < T□ < 24'-0"

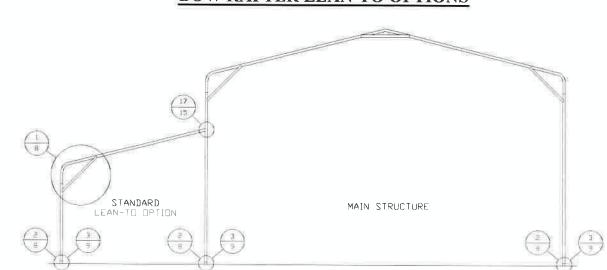
SCALE: NTS

HIVEER * GIN

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

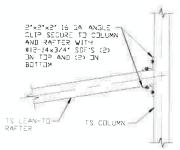
BY: PDH			
	LAKE (CITY, FLORIDA 3	2025
	Yi JG BYi PDH	Yi JG 631 SE LAKE (LAKE CITY, FLORIDA 3

BOW RAFTER LEAN-TO OPTIONS

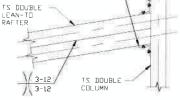


BOW RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN) TYPICAL SCALE NTS

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-O' (12'-O' FOR HIGH WIND) < TO < 16'-O' MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 10'-O' < TO < 13'-O' (12'-O' FOR HIGH WIND) <WITH 4'-4' INSERT) MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS & 10'-0" KNEE BRACES MUST BE 4'-3" (5'-3" FOR HIGH WIND) WHEN LEAN-TO'S ARE ADDED







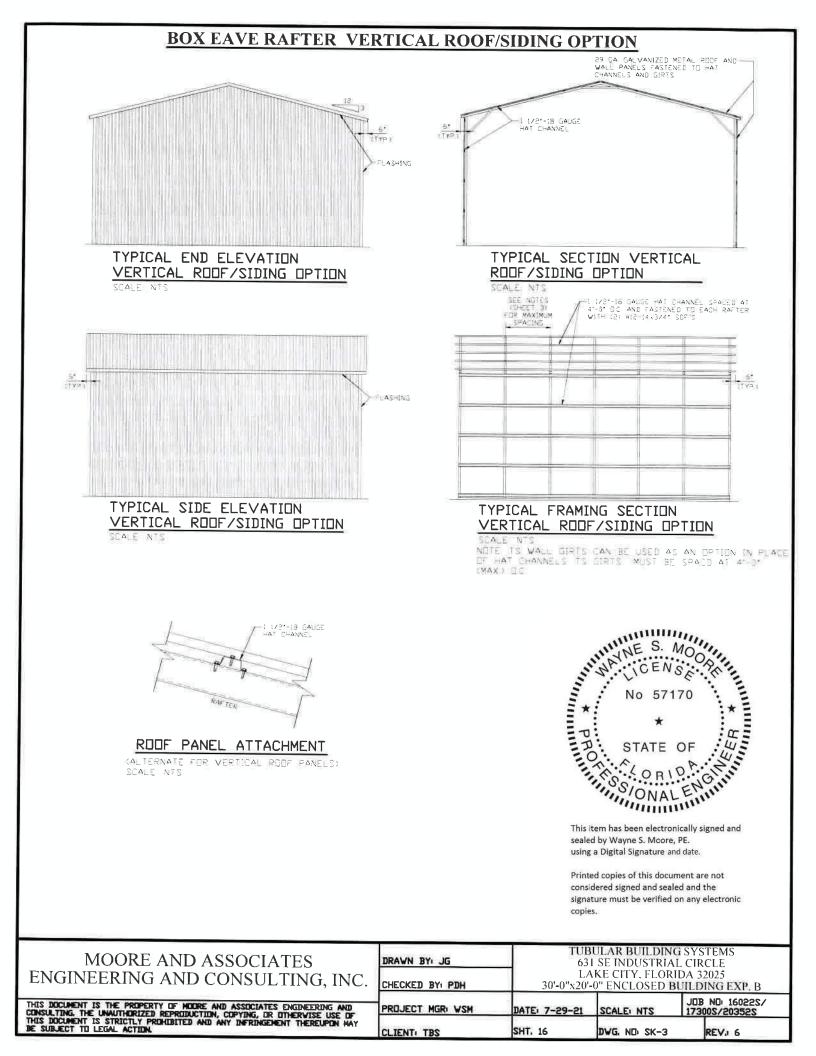
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 15'-0" < T□ ≤ 24'-0"

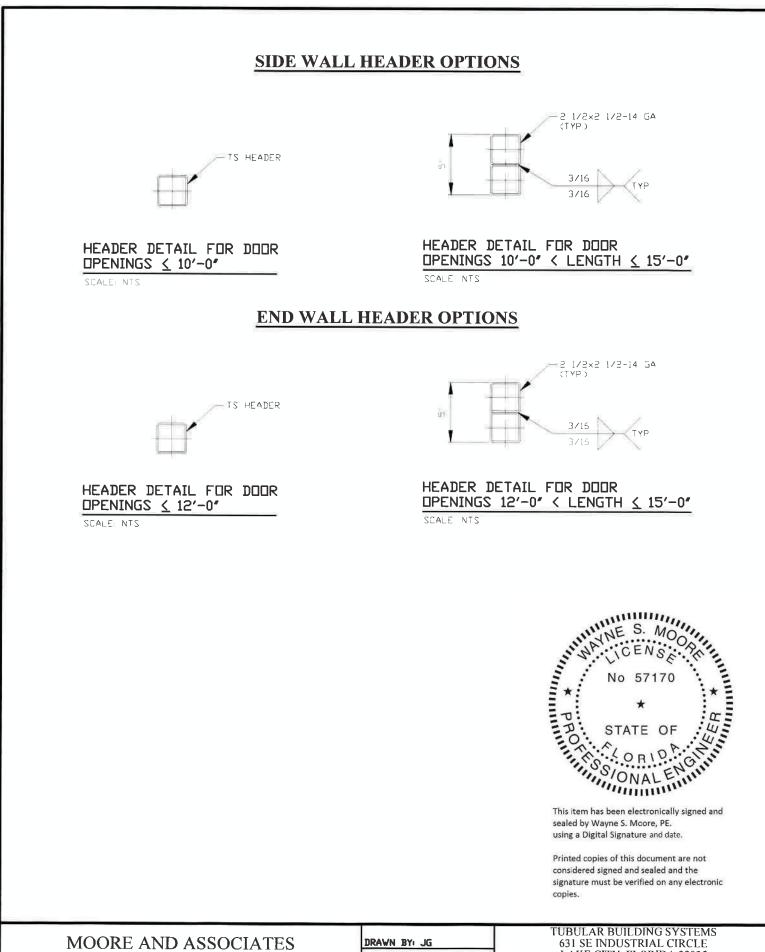


NO 57170 * PD STATE OF STATE OF SORIDE PD STATE OF A HAR A H

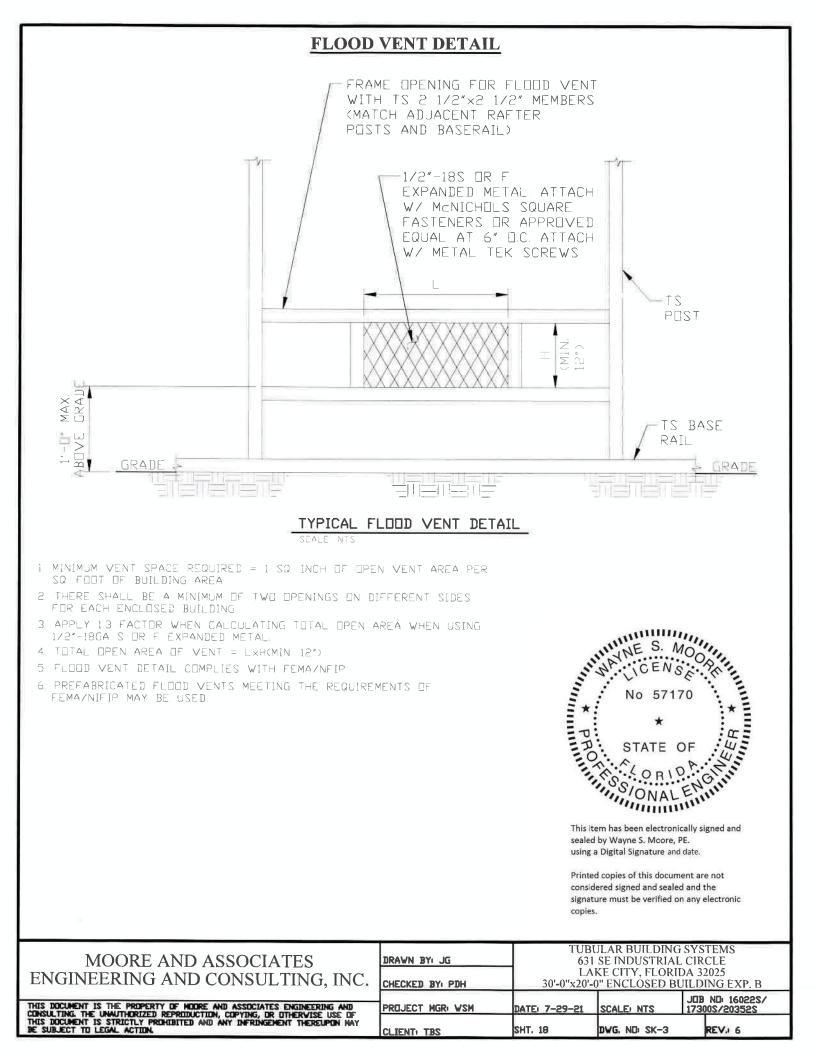
This item has been electronically signed and sealed by Wayne S. Mcore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG Checked By: PDH	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PREJECT MGRI VSM		SCALE: NTS DWG, ND: SK-3	JDB ND: 160225/ 173005/203525 REV: 6	

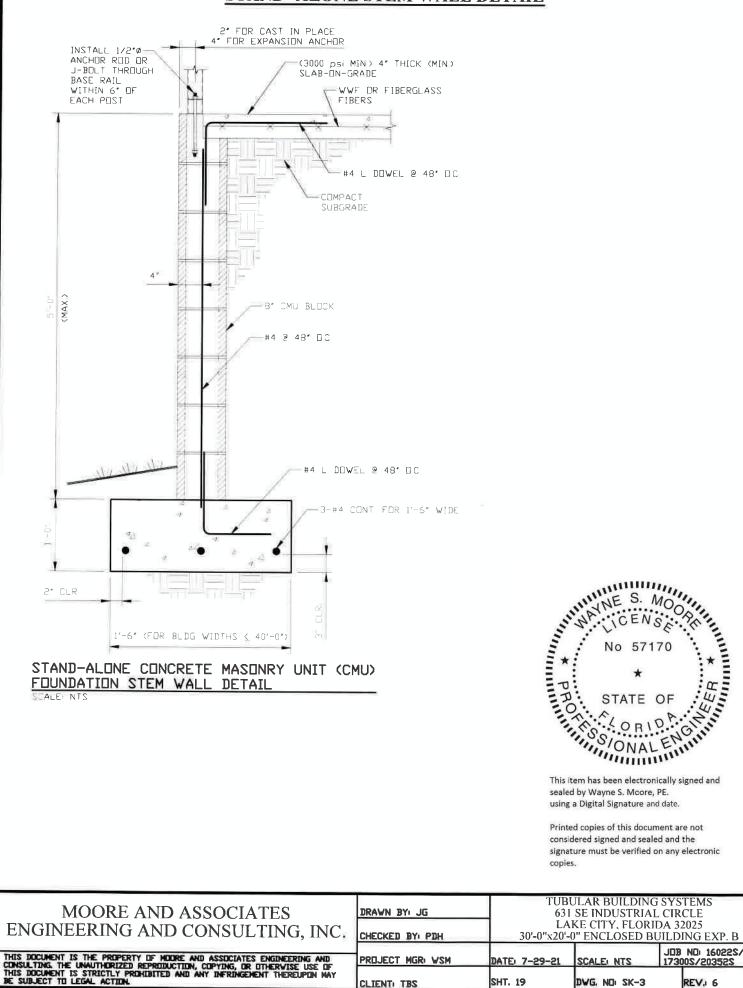




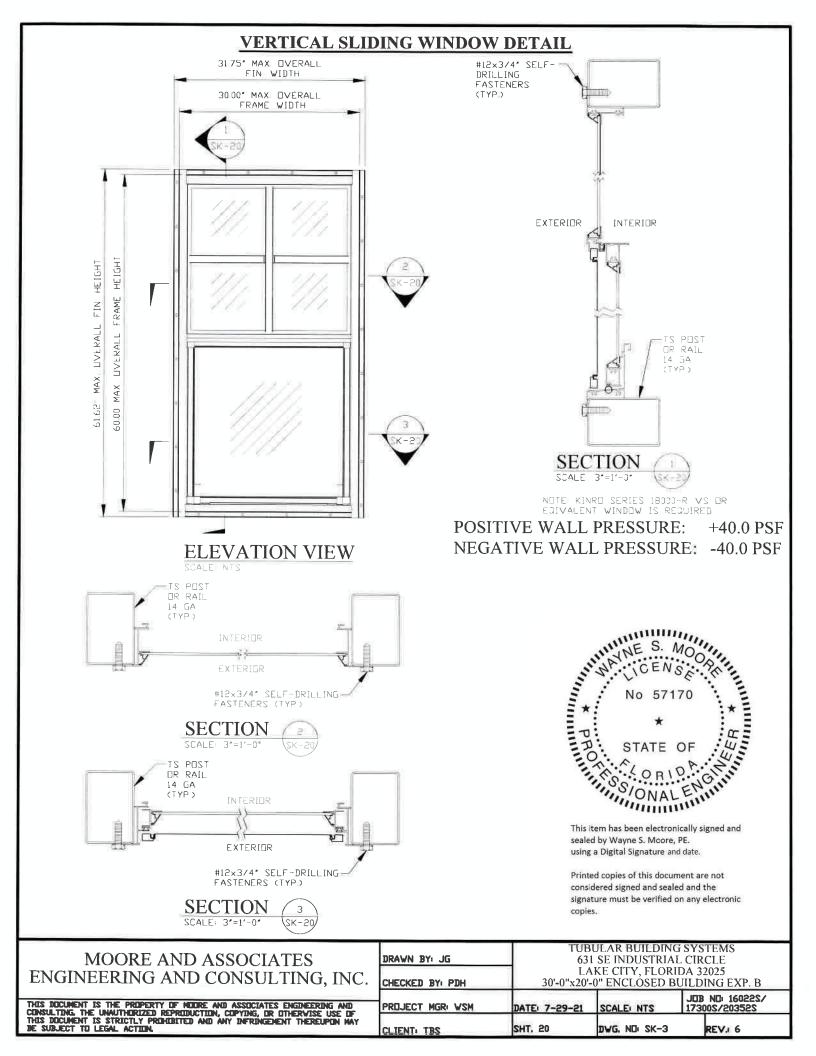
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNWITHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	DRAWN BYI JG	631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025			
	CHECKED BY PDH	30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
	PROJECT MGRI WSM	DATE: 7-29-21	SCALE: NTS	JDB ND: 160225/ 173005/203525	
THIS DICUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON WAY BE SUBJECT TO LEGAL ACTION	CLIENTI TES	SHT, 17	DWG. ND: SK-3		

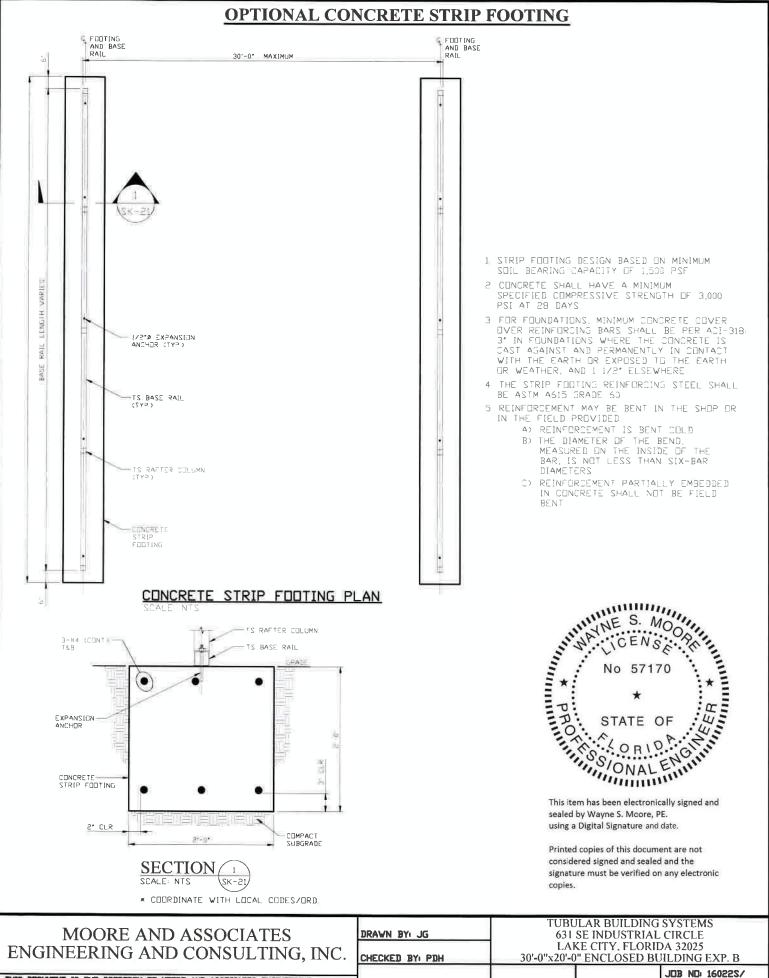


STAND -ALONE STEM WALL DETAIL



TING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE LISE OF	PREJECT MGRI WSM	DATE: 7-29-21	SCALE: NTS	JDB ND 1602 17300S/2035
ocument is strictly prohibited and any infringement thereupon may ject to legal action.	CLIENTI TBS	SHT. 19	DWG. ND: SK-3	REV. 6





THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR DTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIDITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. PROJECT MGR: WSM DATE: 7-29-21 SCALE: NTS CLIENT: TBS SHT. 21 DWG. ND: SK-3

173005/203525

REV. 6