

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

Wayne S Moore Date: 2021.10.21

Digitally signed by Wayne S Moore 08:30:02 -04'00'





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for Code

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		STRIP FOOTING OPTION



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DRAWN BY: JG CHECKED BY: PDH	- 63 L/	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND 16022S/ 005/20352S		
CLIENT: TBS	SHT, 2	DVG. ND: SK-3		REV. 6		

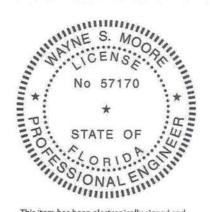
INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR A MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 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 = 53 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 EN-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 S' OF EACH COLUMN
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/WELDED NUT x 30° LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (≤ 100 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 GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

R = 325 $I_Z = 13$ $V = 2_S V$

Spt= 0839 g



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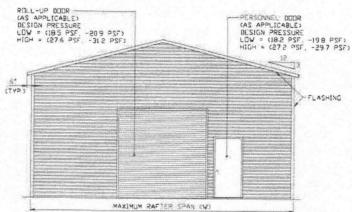
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CHECKED BY: PDH		KE CITY, FLOI -0" ENCLOSED			
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		8 ND: 160225/ 1005/203525	
CLIENT: TBS	SHT. 3	DVG. ND SK-3		REV. 6	

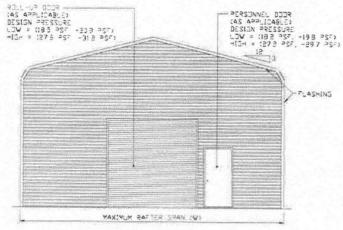
BOX EAVE FRAME RAFTER ENCLOSED BUILDING



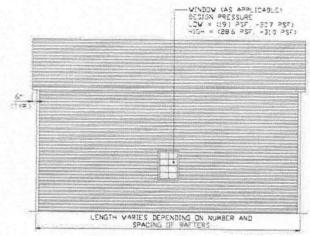
TYPICAL END ELEVATION

SCALE NTS

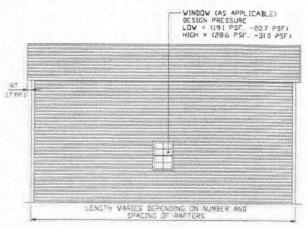
BOW FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION



TYPICAL SIDE ELEVATION

SCALE NTS



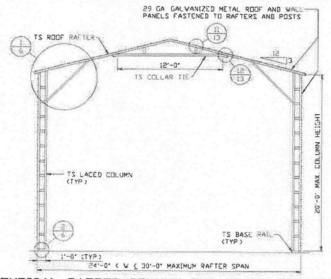
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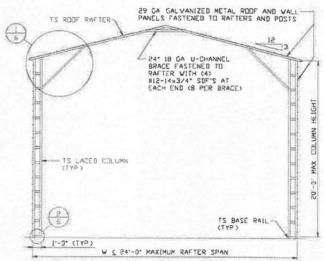
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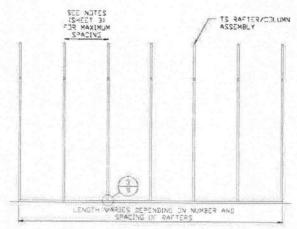
DRAWN BY: JG	63	631 SE INDUSTRIAL CIRCLE					
CHECKED BY: PDH		AKE CITY, FLOR -0" ENCLOSED					
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND 16022S/ 00S/20352S			
CI TENT: TRE	SHT. 4	DVG. ND SK-3		REV. 6			



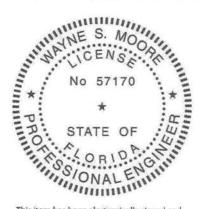
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



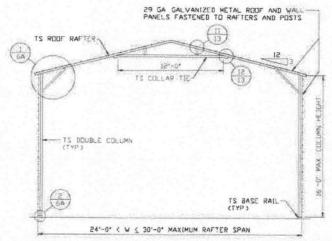
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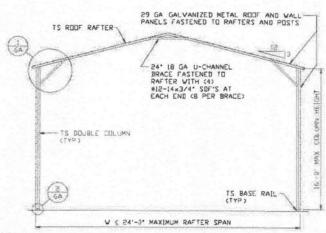
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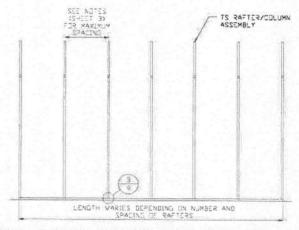
DRAWN BY: JG CHECKED BY: PDH	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"×20'-0" ENCLOSED BUILDING EX			RCLE 2025
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		005/20352S
CLIENT: TBS	SHT. 5	DVG. ND: SK-3		REV. 6



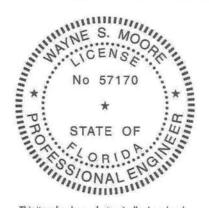
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



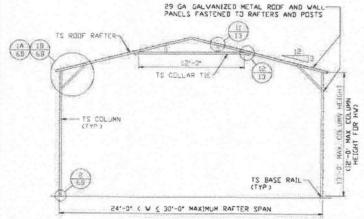
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DRAWN BY: JG	63 LA	ULAR BUILDIN I SE INDUSTRI IKE CITY, FLOI	AL CIP	2025	
CHECKED BY: PDH	30'-0"x20'	0" ENCLOSED	BUILD	ING EXP. B	
PROJECT MGR: VSM	DATE: 7-29-21			B ND: 160225/ 3005/203525	
CLIENT: TBS	SHT. 5A	DVG. ND: SK-3		REV, 6	



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS

29 GA GALVANIZED METAL RUIDF AND WALL
PANELS FASTENED TO RAFTERS AND POSTS

15 ROOF RAFTER

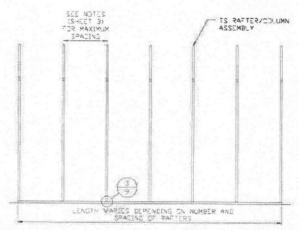
24' 18 GA U-CHANNEL
8RACE FASTENED TO
RAFTER WITH (41)
RIF1-14-3/4' SOFTS AT
EACH END (8 PER BRACE)

15 BASE RAIL

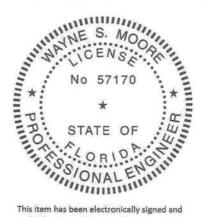
(TYP)

V § 24'-0' MAXIMUM PAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



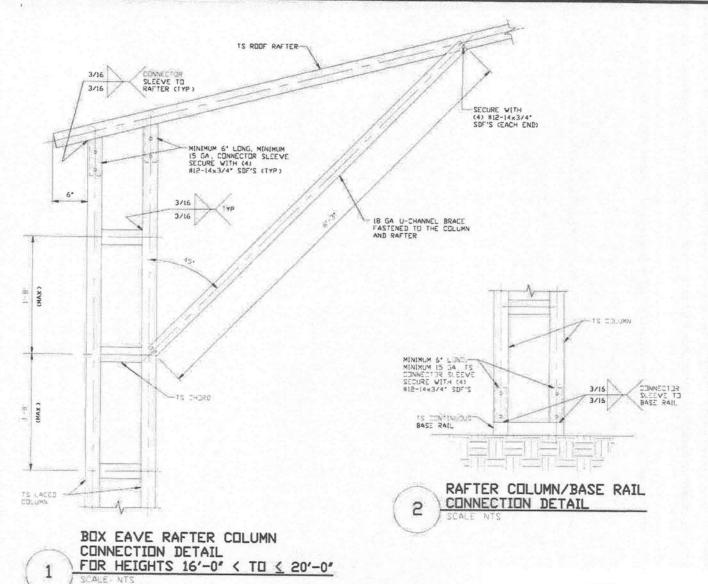
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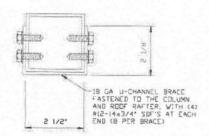
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DRAWN BY: JG	63	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE				
CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. 1				11/10	
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND: 16022S/ 00S/20352S	0	
CLIENT: TBS	SHT. 5B	DWG. ND SK-3		REV. 6		





BRACE SECTION



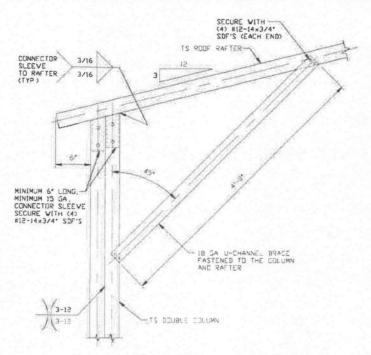
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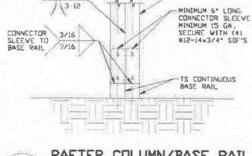
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DRAWN BY: JG CHECKED BY: PDH	63 L/	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
PROJECT MGR: VSM	DATE: 7-29-21	DATE: 7-29-21 SCALE: NTS		JUB ND 16022S/ 17300S/20352S		
CLIENT: TBS	SHT. 6	DWG. NO: SK-3		REV. 6		



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0' < TO < 16'-0"

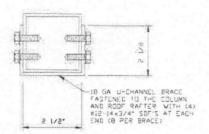
NOTE COLUMN HEIGHTS 12'-3' < TO & 15'-3" FOR HIGH WIND



TS DOUBLE COLUMN

3-15

2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NTS



BRACE SECTION

1



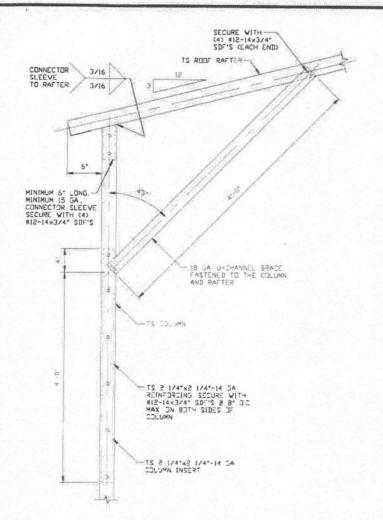
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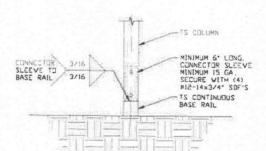
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	CLIENT: TBS	SHT. 6A	DWG. NO: SK-3		REV. 6	
-	PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND: 16022S/ 100S/20352S	
	CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
	DRAWN BY: JG	63	ULAR BUILDIN I SE INDUSTRI	AL CIF	RCLE	

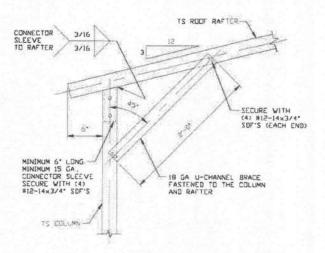


BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 10'-0' < TO \$ 13'-0'
SCALE NTS
NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0' FOR HIGH

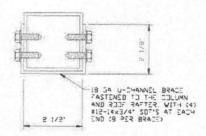


1A

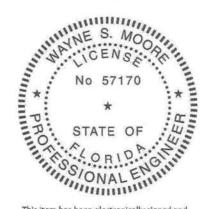
2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NTS



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



BRACE SECTION



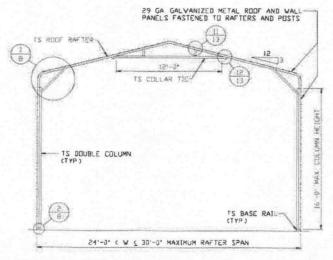
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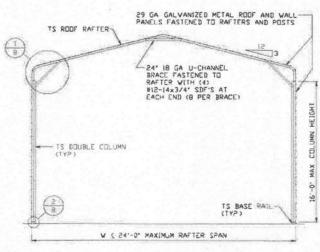
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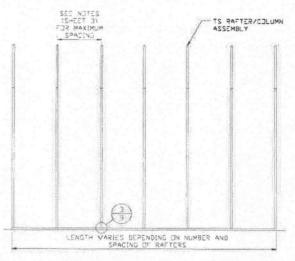
DRAWN BY: JG	63	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025					
CHECKED BY: PDH		KE CITY, FLO -0" ENCLOSED					
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		\25505\200 25505\200			
CLIENT: TBS	SHT. 6B	DWG. ND: SK-3		REVJ 6			



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



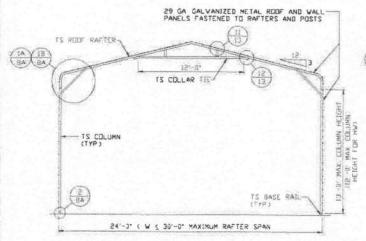
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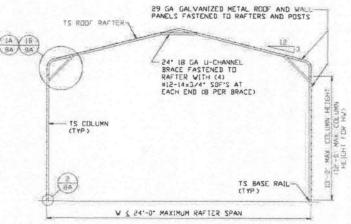
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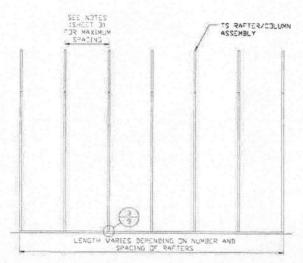
	100 000 111			
631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				





TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



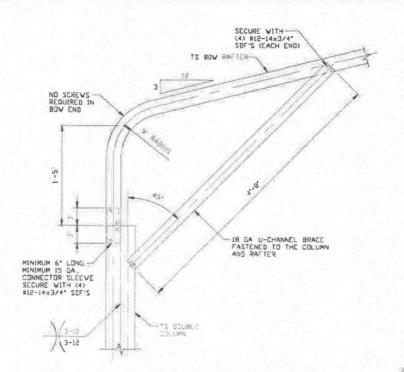
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CHECKED BY: PDH		LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND 160225/ 005/203525	
CLIENT: TBS	SHT. 7A	DWG. NO: SK-3		REV. 6	



CONNECTOR 3/16

CONNECTOR 3/16

SLEEVE TO BASE RAIL 3/16

TS CONTINUOUS BASE RAIL

RAFTER COLUMN/BASE RAIL

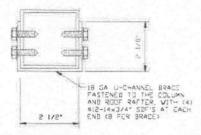
CONNECTION DETAIL

2

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0' < TO < 16'-0'

SCALE NTS

NOTE COLUMN HEIGHTS 12'-3' K TO & 16'-3' FOR HIGH WIND



BRACE SECTION



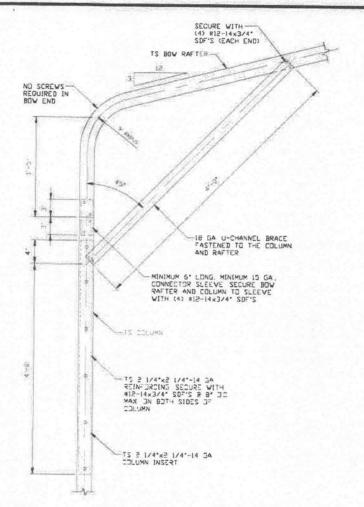
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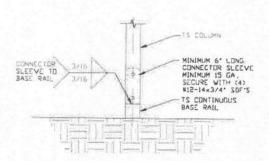
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1	PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS	ND: 16022S/ 00S/20352S	1
	CLIENT: TBS	SHT. 8	DVG. ND SK-3	REV. 6	



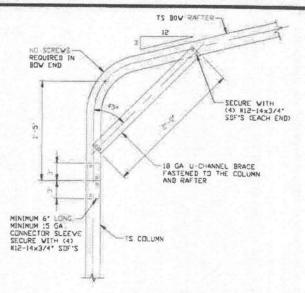
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO < 13'-0'

SCALE NTS
NOTE MAXIMUM COLUMN HEIGHT IS 12'-0' FOR HIGH WIND

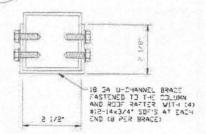


1A

RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

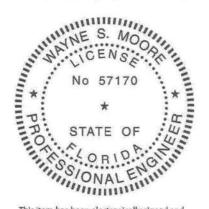


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"



BRACE SECTION

1B



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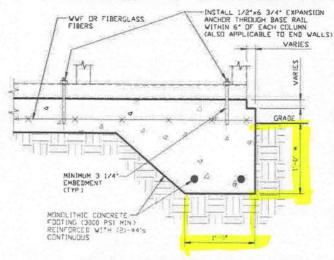
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DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025			
CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED BUILDING EXP			ING EXP. B
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND 160225/ 005/203525
CLIENT: TBS	SHT. 8A	DWG. ND: SK-3		REVJ 6

BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED



3A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

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

2. WASHERS DRILL 5/8' DIAMETER HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2' DIAMETER THROUGH BOLT TOP OF ASPHALT-PAVEMENT OR GROUND SURFACE TS CONTINUE BASE RAIL HELIX EYE ANCHOR

3B

GROUND BASE HELIX ANCHORAGE

COAN BE USED FOR ASPHALTS * 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

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:

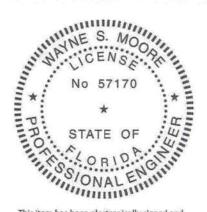
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRADE 50 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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
 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIELD BENT

HELIX ANCHOR NOTES

- I 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



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CLIENT: TBS	SHT. 9	DVG. ND: SK-3		REV. 6	
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		NO: 16022S/	
CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE				