

STRUCTURAL DESIGN

FULLY OPEN BUILDING EXPOSURE B

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

8 January 2021 Revision 6 M&A Project No. 16022S/17300S/18028S/20352S

Prepared for:

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

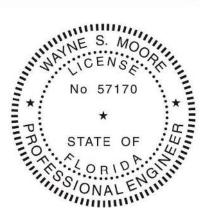
Prepared by:

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 by Wayne S Moore Date: 2021.01.12 15:43:29 -05'00'





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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 RAF TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAF
SHEET 5A SHEET 5B	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAF
SHEET 6	TYPICAL RAFTER COLUMN CONNECTION DETAILS (LACED COLUMN)
SHEET 6A	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 8A	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 & HIGH WIND SPPED
SHEET 9B	BASE RAIL ANCHORAGE OPTION
SHEET 9C	BASE RAIL ANCHORAGE OPTIONS
SHEET 10	CONNECTION DETAILS
SHEET 11	BOX EAVE RAFTER LEAN-TO OPTIONS
SHEET 11A	BOX EAVE RAFTER LEAN-TO OPTIONS
SHEET 12	BOW RAFTER LEAN-TO OPTIONS
SHEET 13	BOX EAVE RAFTER GABLE END OPTION
SHEET 14	BOW RAFTER GABLE END OPTION
SHEET 15	BOX EAVE RAFTER EXTRA SIDE PANEL OPTION
SHEET 16	BOW RAFTER EXTRA SIDE PANEL OPTION S. MOON,
SHEET 17	BOX EAVE RAFTER VERTICAL ROOF OPTION
SHEET 18	OPTIONAL DOOR HEADER . No 57170 .
SHEET 19	STAND-ALONE STEM WALL DETAIL
SHEET 20	VERTICAL SLIDING WINDOW DETAIL
SHEET 21	STRIP FUUTING UPTION
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	63 L	BULAR BUILDIN I SE INDUSTRIA AKE CITY, FLOF " FULLY OPEN!	AL CIRCLE
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INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR A MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT FULLY OPEN STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC, 2018 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS: = 1.5 PSF

A) DEAD LOAD

12 PSF

B) LIVE LOAD

- 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 = 5.0 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 ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" OR END = 6", (MAX.)
- 11. 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. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
- 12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/WELDED NUT × 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. 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= 3.25

 $I_{\rm F} = 1.0$

S_{DS}= 1.522 g $\Lambda = C^2 M$ g ess.0 = ra2



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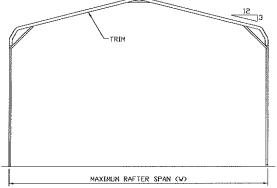
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DRAWN BY: JG	63	I SE INDUSTRIA	L CII	RCLE
	LA	KE CITY, FLOR	IDA :	32025
CHECKED BY: PDH	30'-0"x20'-0"	' FULLY OPEN S	TRU	CUTRE EXP. B
			JDB I	ND: 16022S/
PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	17300	2/180282/203525
CLIENT: TRS	SHT. 3	DWG, ND; SK−1	·	REV.1 6

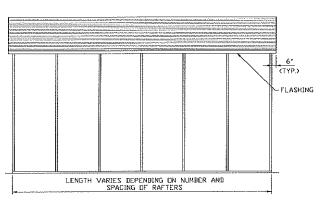
BOX EAVE FRAME RAFTER ENCLOSED BUILDING TRIM MAXIMUM RAFTER SPAN (W)

TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

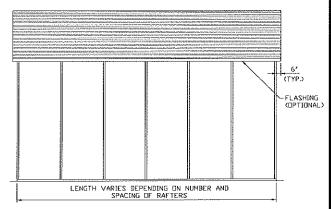
BOW FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS



TYPICAL SIDE ELEVATION SCALE: NTS



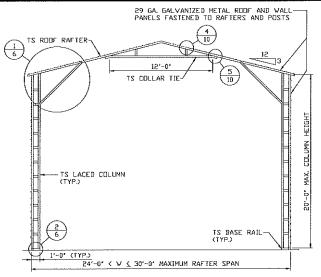
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		TUB	ULAR BUILDIN	G SYSTEMS				
	DRAWN BY: JG	63	1 SE INDUSTRIA	L CIRCLE				
	·	LAKE CITY, FLORIDA 32025						
•	CHECKED BY: PDH	30'-0"x20'-0'	' FULLY OPEN S	TRUCUTRE EXP. B				
				JDB NO 16022S/				
	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	173008/180288/203528				
	CLIENT: TRS	SHT. 4	DWG. NO: SK-1	REV₁ 6				



SCALE: NTS

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

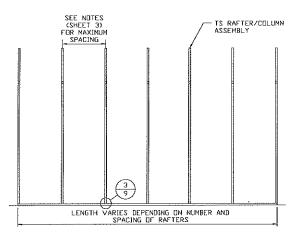
24' 18 GA. U-CHANNEL
BRACE FASTENED TO
RAFTER WITH (4)
412-143/4' SDE'S AT
EACH END (8 PER BRACE)

TS LACED COLUMN
(TYP.)

TS BASE RAIL
(TYP.)

Y S 24'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



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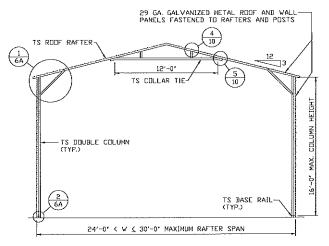
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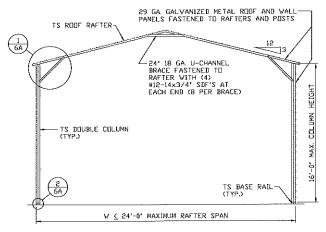
TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" FULLY OPEN STRUCUTRE EXP. B

 PROJECT MGR: WSM
 DATE: 1-8-21
 SCALE: NTS

 CLIENT: TBS
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 DWG, ND: SK-1

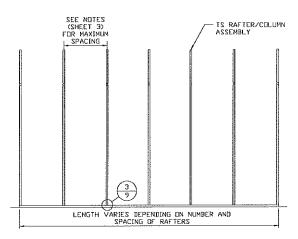
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

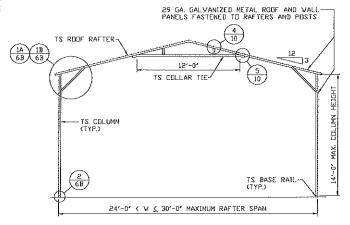


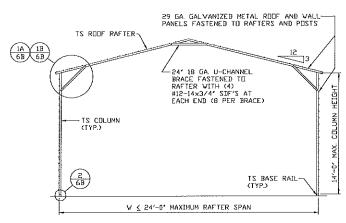
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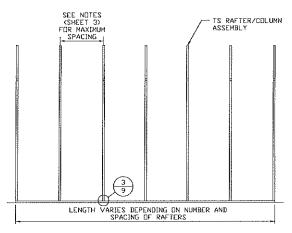
	TUB	ULAR BUILDIN	G SYSTEMS
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	LA	KE CITY, FLOR	IDA 32025
CHECKED BY: PDH	30'-0"x20'-0'	' FULLY OPEN S	TRUCUTRE EXP. B
			JDB NO: 16022S/
 PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	173005/180285/203525
CLIENT: TRS	SHT. 5A	DWG. ND: SK-1	REV. 6





SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

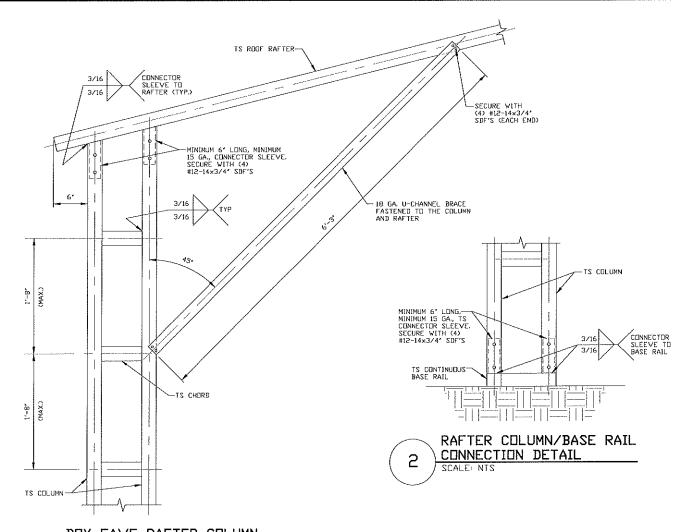


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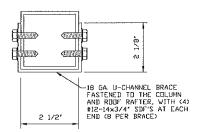
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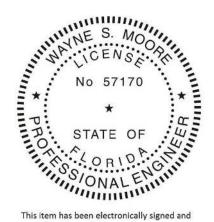


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0" SCALE: NTS



BRACE SECTION SCALE: NTS

1



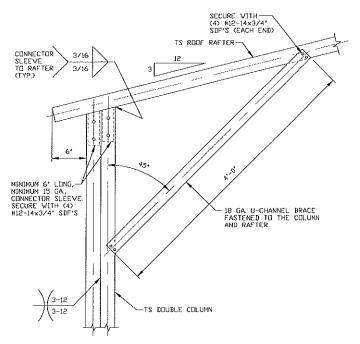
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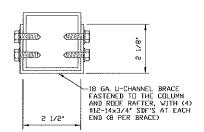
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 PROJECT MGR: VSM	DATE: 1-8-21			ND: 16022S/ S/18028S/20352S	
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DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE				



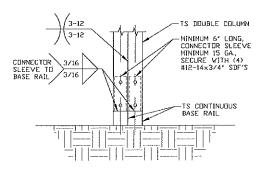
BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 14'-0" < TO < 16'-0"

SCALE: NTS

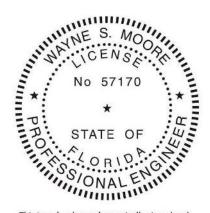


BRACE SECTION
SCALE: NTS



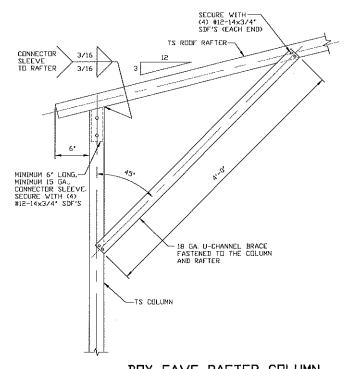
RAFTER COLUMN/BASE RAIL

CONNECTION DETAIL

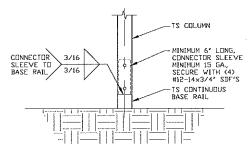


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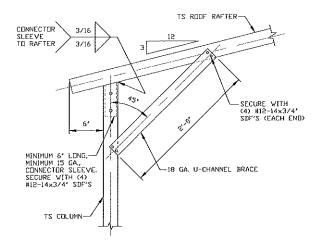
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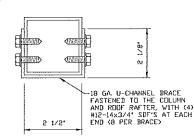
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 14'-0" SCALE: NTS



RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



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



BRACE SECTION

SCALE: NTS

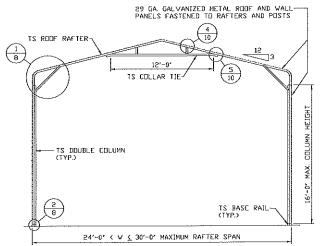
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ENGREEDING AND CONCUENTING INC	CHECKED BY: PDH		AKE CITY, FLOF " FULLY OPEN !	RIDA 32025 STRUCUTRE EXP. B
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

TS ROOF RAFTER

12
3

24' 18 GA. U-CHANNEL
BRACE FASTENED TO
RAFTER WITH (4)
RAFTER BRACE)

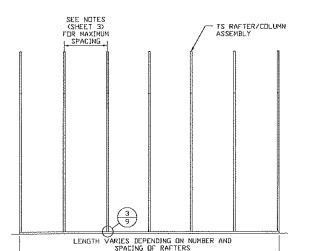
15 BOUBLE COLUMN
(TYP.)

15 BASE RAIL
(TYP.)

W
2 24'-0' MAXIMUM RAFTER SPAN

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

TYPICAL RAFTER/COLUMN END FRAME SECTION

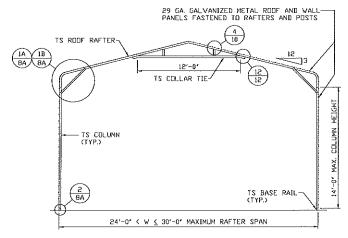


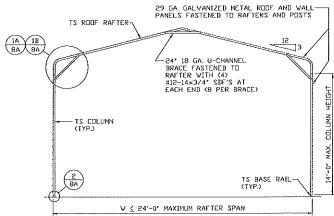
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



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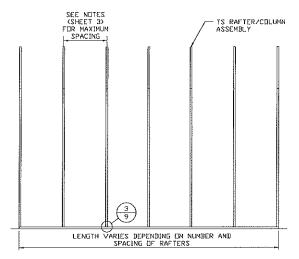
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	63 L	ULAR BUILDING SYSTEMS SE INDUSTRIAL CIRCLE KE CITY, FLORIDA 32025 FULLY OPEN STRUCUTRE EXP. B		
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SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

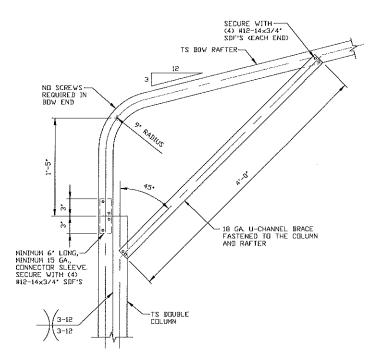


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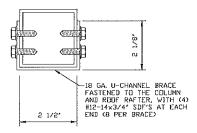
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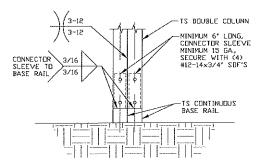
	I IUB	OLAK BUILDIN	OSI	STEMS
DRAWN BY: JG	63	I SE INDUSTRIA	L CI	RCLE
	LA	KE CITY, FLOR	IDA :	32025
CHECKED BY: PDH	30'-0"x20'-0'	' FULLY OPEN S	TRU	CUTRE EXP. B
			JDB	NO: 16022S/
 PROJECT MGR: VSM	DATE: 1-8-21	SCALE: NTS	17300	257602/282081/2
CLIENTI TRS	SHT. 7A	DWG. NO: SK-1		REV.: 6



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



BRACE SECTION
SCALE: NTS



RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

2



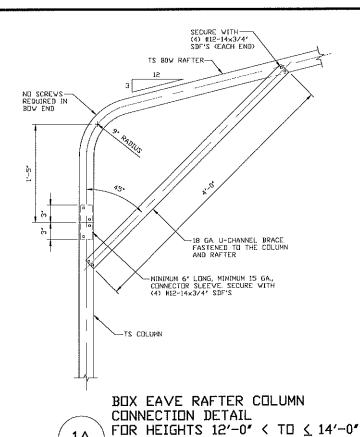
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		TUB	ULAR BUILDIN	G SY	STEMS
	DRAWN BY: JG	63.	I SE INDUSTRIA	L CI	RCLE
ı		LA	KE CITY, FLOR	32025	
	CHECKED BY: PDH	30'-0"x20'-0"	FULLY OPEN S	TRU	CUTRE EXP. B
	PREJECT MGR: VSM	DATE: 1-8-21			ND: 160225/ S/18028S/20352S
	PRESECT MENT WSM	DHIEL T-0-CI	SCHEEL MIS	17300	37 160E037 E030E3
	CLIENT: TBS	SHT. B	DWG. ND: SK~1		REV.: 6

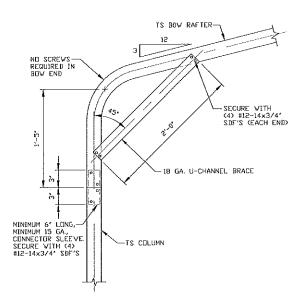


TS COLUMN MINIMUM 6' LONG, CONNECTOR SLEEVE MINIMUM 15 GA., SECURE WITH (4) #12-14x3/4' SDF'S CONNECTOR SLEEVE TO BASE RAIL 3/16 3/16 TS CONTINUOUS BASE RAIL

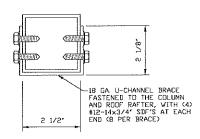
1A

SCALE: NTS

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL 2 SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 12'-0" 1B SCALE: NTS



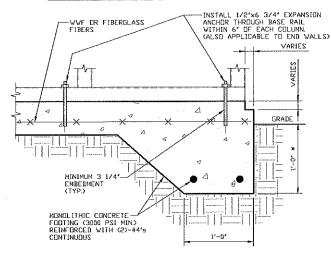
BRACE SECTION
SCALE: NTS



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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	. 63 L.	BULAR BUILDIN I SE INDUSTRI AKE CITY, FLO	AL CIRCLE RIDA 32025
ŕ	CHECKED BY: PDH PREJECT MGR: WSM	30-0"x20-0 DATE: 1-8-21	SCALE: NTS	STRUCUTRE EXP. B JDB NO: 16022\$/ 17300\$/18028\$/20352\$
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BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS 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

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 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:

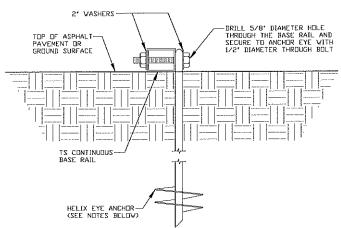
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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:

- FOR VERY DENSE AND/OR CEMENTED SANDS, CDARSE 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 LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6' HELICES WITH MINIMUM 50
- 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.



3B

GROUND BASE HELIX ANCHORAGE

(CAN BE USED FOR ASPHALT) * COURDINATE WITH LOCAL CODES/ORD. REGARDING MINIMUM FRUST DEPTH REQ.



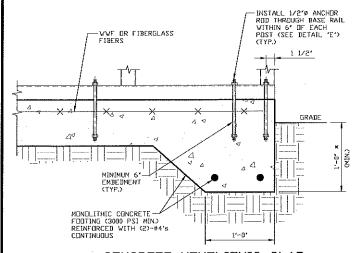
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		TUB	ULAR BUILDIN	G SY	STEMS
	DRAWN BY: JG	63	1 SE INDUSTRIA	L CI	RCLE
ŧ		L.A	KE CITY, FLOR	IDA	32025
	CHECKED BY: PDH	30'-0"x20'-0" FULLY OPEN STRUCUTRE EXP			
				JOB	ND: 16022S/
	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	17300	2502\282081\2
	CLIENT: TBS	SHT. 9	DWG, NO: SK-1		REV. 6

OPTIONAL FOUNDATION ANCHORAGE FOR LOW & HIGH WIND SPEED



3C

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2" * 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:

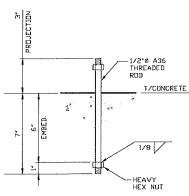
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2 INCHES ELSEWHERE.

REINFORCING STEEL

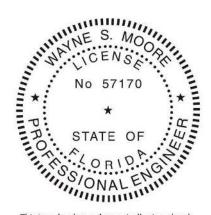
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 DR FIBERGLASS FIBER REINFORCEMENT.

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 BE FIELD BENT.



ANCHOR ROD THROUGH BASE RAIL DETAIL 3D



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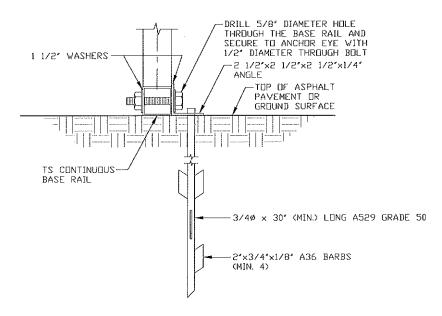
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		ULAR BUILDING			
DRAWN BY: JG	63	I SE INDUSTRIA	L CIRCLE		
	LA	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" FULLY OPEN STRUCUTR			
CHECKED BY: PDH	30'-0"x20'-0'				
 PREJECT MGR: VSM	DATE: 1-8-21		JOB NO: 16022\$/ 17300\$/18028\$/20352\$		
CLIENT: TBS	SHT. 9A	DWG. NO: SK-1	REV.⊧ 6		

BASE RAIL ANCHORAGE OPTION



ASPHALT BASE ANCHORAGE (HP 9 BARBED DRIVE ANCHOR)

SCALE: NTS
(CAN BE USED FOR ASPHALT)
* COORDINATE WITH LOCAL CODES/URD.
REGARDING MINIMUM FROST DEPTH REQ.

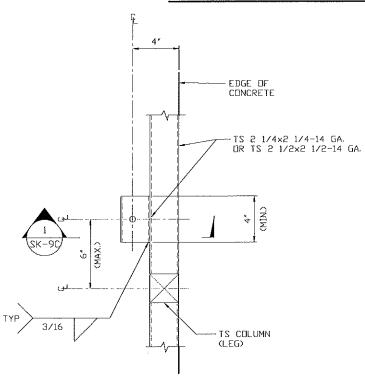
3E

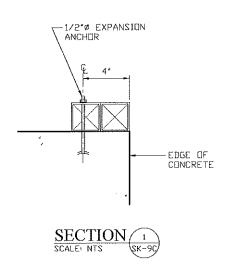


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MOORE AND ASSOCIATES	DRAWN BY: JG		BULAR BUILDIN I SE INDUSTRIA	
ENCINEEDING AND CONGULTING INC	CHECKED BY: PDH		AKE CITY, FLOI " FULLY OPEN:	RIDA 32025 STRUCUTRE EXP. B
<u> </u>				JOB NO 160225/
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BE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT. 9B	DWG. NO: SK-1	REV. 6

BASE RAIL ANCHORAGE OPTIONS





TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



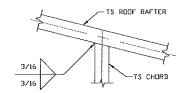
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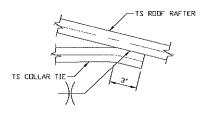
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	RICTLY PROHIBITED AND	ANY INFRINGEMEN	T THEREUPON MAY
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 <u> </u>				
	TUB	ULAR BUILDIN	GSY	STEMS
DRAWN BY: JG	63	I SE INDUSTRIA	L CI	RCLE
	LAKE CITY, FLORIDA 32025			
CHECKED BY: PDH	' FULLY ÓPEN S			
			ו פובע	ND: 16022S/
 PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	17300	2/180282/203525
CLIENT: TBS	SHT, 9C	DWG. NO SK-1		REV. 6

CONNECTION DETAILS



4 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



5 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



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	TUBULAR BUILDING SYSTEMS					
DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE					
	LA	LAKE CITY, FLORIDA 32025				
CHECKED BY: PDH	30'-0"x20'-0'	30'-0"x20'-0" FULLY ÓPEN STRUCUTRE EXP. B				
 				ND: 160225/		
PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	17300	\$25002\285081\2		
CLIENT: TBS	SHT. 10	DWG. NO: SK-1		REV. 6		

BOX EAVE RAFTER LEAN-TO OPTIONS $\left(\frac{7}{11A}\right)$ STANDARD ROOF EXTENSION MAIN STRUCTURE LEAN-TO OPTION OPTION 2 6 9

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

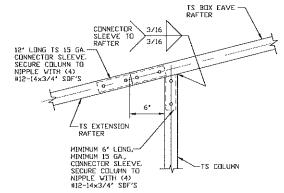
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 16'-0' < TO < 20'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-0' < TO < 16'-0'.

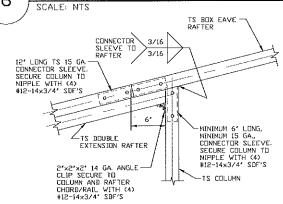
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR

EAVE HEIGHTS 10'-0' < TO < 13'-0'.
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR

EAVE HEIGHTS \le 10'-0". KNEE BRACE MUST BE 4'-0" (5'-0" FOR HIGH WIND).



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS < 15'-0" 6



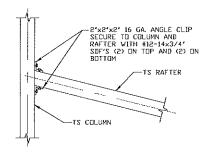
SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS 15'-0" < TO < 24'-0" 6A SCALE: NTS



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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x20'-0	" FULLY OPEN	JOB NO: 160225/	
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BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 15'-0'

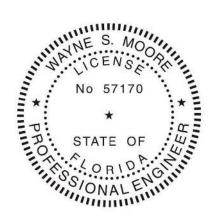
2'X2'X2' 14 GA. ANGLE CLIP
SECURE TO COLUMN AND
RAFTER WITH 1/4'X3/4' SDF
(2) IDN YOP AND (2) ON
BOTTOM
TS DOUBLE RAFTER

TS COLUMN
3-12
3-12

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $15'-0'' < TO \le 24'-0''$

 $7A)\frac{1}{5}$

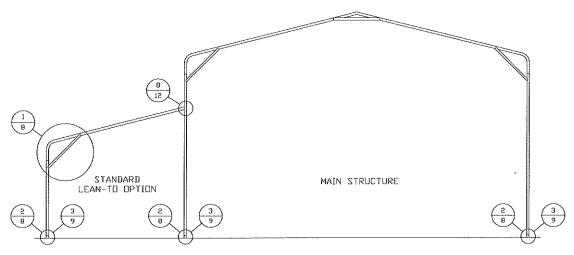
CALE: NTS



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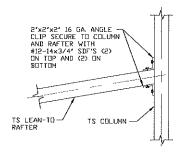
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	63 L	BULAR BUILDIN I SE INDUSTRIA KE CITY, FLOI " FULLY OPEN :	AL CIRCLE
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BOW RAFTER LEAN-TO OPTIONS



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

SCALE: NTS MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-0' < TO \leq 16'-0''. MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 10'-0'' < TO \leq 13'-0''. MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS \leq 10'-0''. KNEE BRACE MUST BE 4'-0' <5'-0" FOR HIGH WIND).

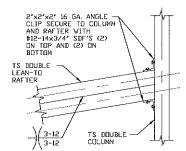


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 15′-0″

SCALE: NTS

8

88



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 15'-0" < TO ≤ 24'-0"

SCALE: NTS



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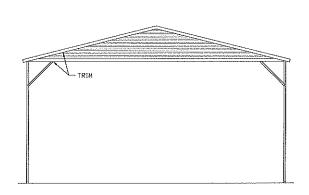
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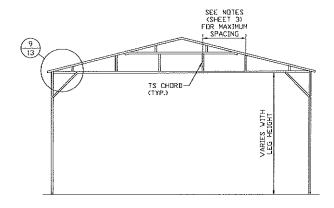
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	TUBULAR BUILDING SYSTEMS					
DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE					
	LAKE CITY, FLORIDA 32025					
CHECKED BY: PDH	30'-0"x20'-0'	' FULLY OPEN S	TRU	CUTRE EXP. B		
				VD: 16022S/		
PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	17300	2/180262/203525		
CLIENT, TRS	SHT, 12	DWG, ND: SK-1		REV. 6		

BOX EAVE RAFTER GABLE END OPTION

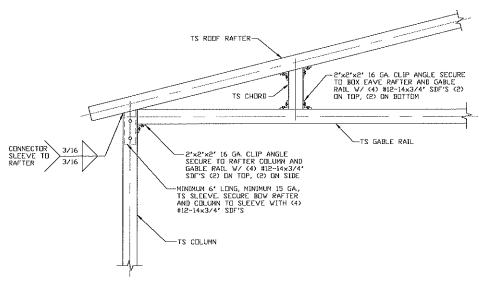




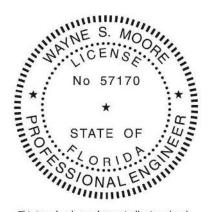
TYPICAL BOX EAVE RAFTER GABLE END ELEVATION

SCALE: NTS

TYPICAL BOX EAVE RAFTER GABLE END FRAMING SECTION



BOX EAVE RAFTER GABLE RAIL TO RAFTER COLUMN CONNECTION DETAIL 9 NOTE: KNEE BRACE NOT SHOWN FOR CLARITY.



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1	DRAWN	BY	J	5	
1	CHECKE	D B	Υı	PDH	

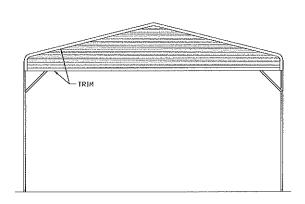
CLIENT: TBS

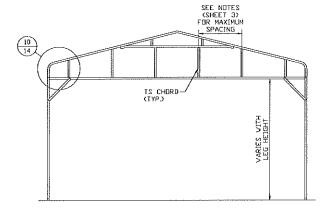
TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" FULLY OPEN STRUCUTRE EXP. B

PROJECT MGR: WSM DATE: 1-8-21 SCALE: NTS SHT. 13 DWG, NO: SK-1

JDB NO: 160225/ 173005/180285/203525 REV. 6

BOW RAFTER GABLE END OPTION



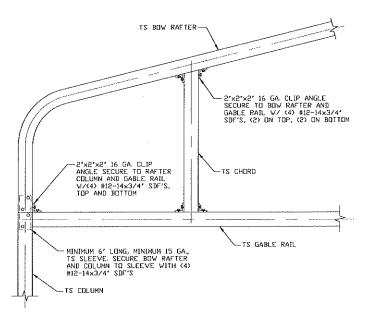


TYPICAL BOW EAVE RAFTER

TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

GABLE END FRAMING SECTION
SCALE: NTS

SCALE: NTS



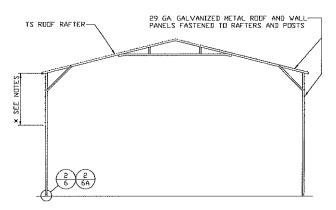




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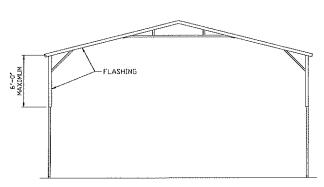
MOORE AND ASSOCIATES	DRAWN BY: JG	63	BULAR BUILDIN 1 SE INDUSTRIA AKE CITY, FLOR	AL CIRCLE
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x20'-0	<u>" FULLY ÓPEN S</u>	STRUCUTRE EXP. B
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BOX EAVE RAFTER EXTRA SIDE PANEL OPTION



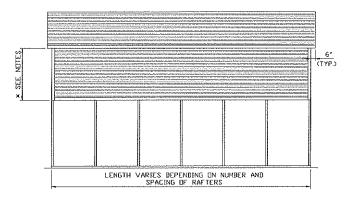
TYPICAL RAFTER/POST FRAME SECTION EXTRA SIDE PANELS

SCALE: NTS



TYPICAL END ELEVATION EXTRA SIDE PANELS

SCALE: NTS



TYPICAL SIDE ELEVATION EXTRA SIDE PANELS

SCALE: NTS

NOTES:

* 20'-0' PANEL FOR EAVE HEIGHT 14'-0' < TO < 20'-0' * 0'-0' PANEL FOR EAVE HEIGHT $\leq 14'$ -0'



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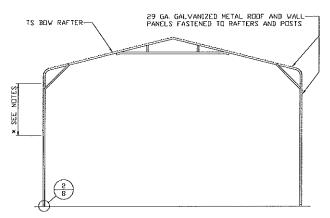
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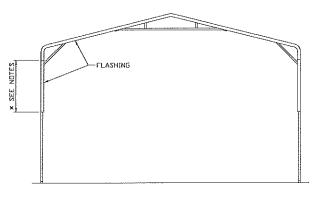
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	TUBULAR BUILDING SYSTEMS				
DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE				
	L.A	KE CITY, FLOR	IDA :	32025	
CHECKED BY: PDH	30'-0"x20'-0'	' FULLY OPEN S	TRU	CUTRE EXP. B	
 PROJECT MGR: WSM	DATE: 4 0 01			ND: 16022S/	
PRUJECT MURI WSM	DATE: 1-8-21	SCALE: NTS	1/300	S/18028S/20352S	
CLIENT: TBS	SHT. 15	DWG, NO: SK-1		REV.: 6	

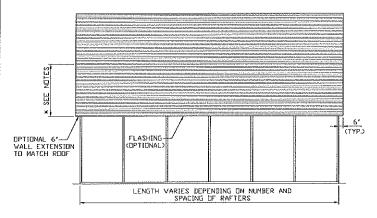
BOW RAFTER EXTRA SIDE PANEL OPTION



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



TYPICAL END ELEVATION EXTRA SIDE PANELS SCALE: NTS



TYPICAL SIDE ELEVATION EXTRA SIDE PANELS

SCALE: NTS

* 20'-0' PANEL FOR EAVE HEIGHT 14'-0' < TO < 20'-0' * 0'-0' PANEL FOR EAVE HEIGHT $\leq 14'$ -0'



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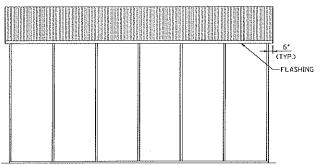
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 PROJECT MGR: WSM	DATE: 1-8-21			NO: 16022\$/ \$/18028\$/20352\$	
CHECKED BY: PDH	i .	KE CITY, FLOR FULLY OPEN S			
DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE				

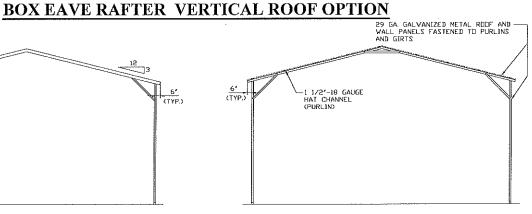
(TYP.) FLASHING-

TYPICAL END ELEVATION VERTICAL ROOF/SIDING OPTION SCALE: NTS

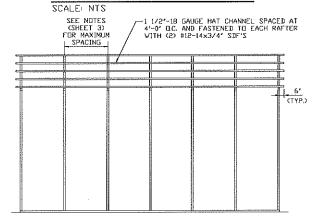


TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING OPTION

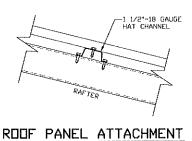
SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION SCALE: NTS



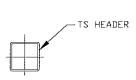
(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



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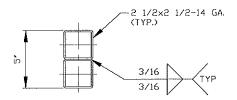
MOODE AND AGGOCIATED	DRAWN BY: JG		BULAR BUILDIN 1 SE INDUSTRIA	
MOOKE AND ASSOCIATES	DRAWK DI JU		AKE CITY, FLOF	
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH			STRUCUTRE EXP. B
THE PROJUCT TO THE RESPECTIVE OF LIPTUR AND ACCRUTATED DAYSTEEDING AND	DDD ICOT HCD. VOV	n		JUB NO: 160225/
THIS DOCUMENT IS THE PROPERTY OF HOORE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	17300\$/18028\$/20352\$
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SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS ≤ 10'-0"

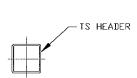
SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS 10'-0" < LENGTH ≤ 15'-0"

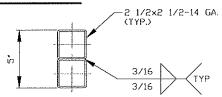
SCALE: NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS ≤ 12'-0"

SCALE: NTS



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

SCALE: NTS



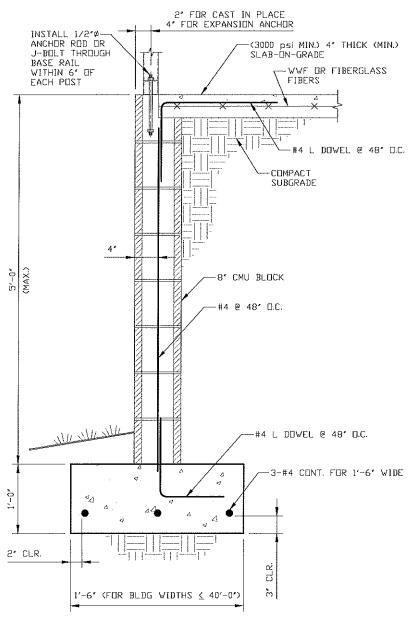
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ENGINEERING AND CONSULTING, INC.

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BE SUBJECT TO I	FGAI ACTION.			
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	TUBULAR BUILDING SYSTEMS			
DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE			
	LAKE CITY, FLORIDA 32025			
CHECKED BY: PDH	30'-0"x20'-0" FULLY OPEN STRUCUTRE EXP. B			
 PROJECT MGR: WSM	DATE: 1-8-21			ND: 160225/ S/180285/203525
CLIENT: TBS	SHT. 18	DWG. NO: SK-1		REV.: 6

STAND -ALONE STEM WALL DETAIL



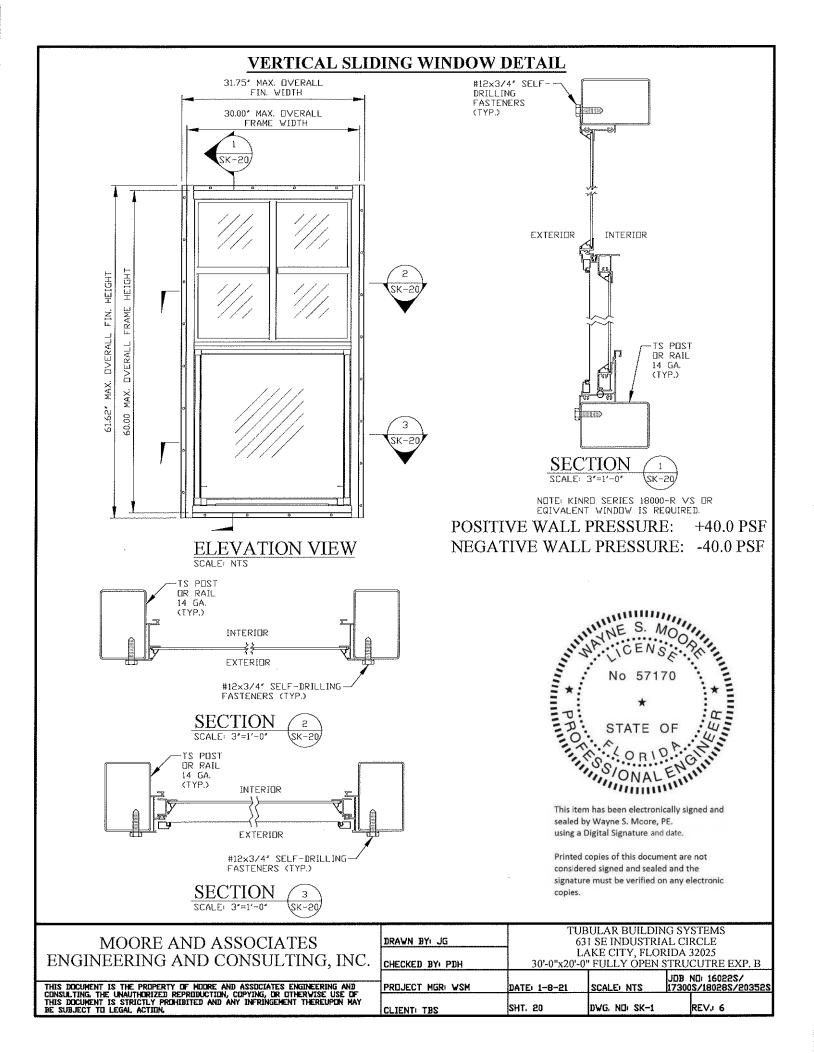
STAND-ALONE CONCRETE MASONRY UNIT (CMU) FOUNDATION STEM WALL DETAIL

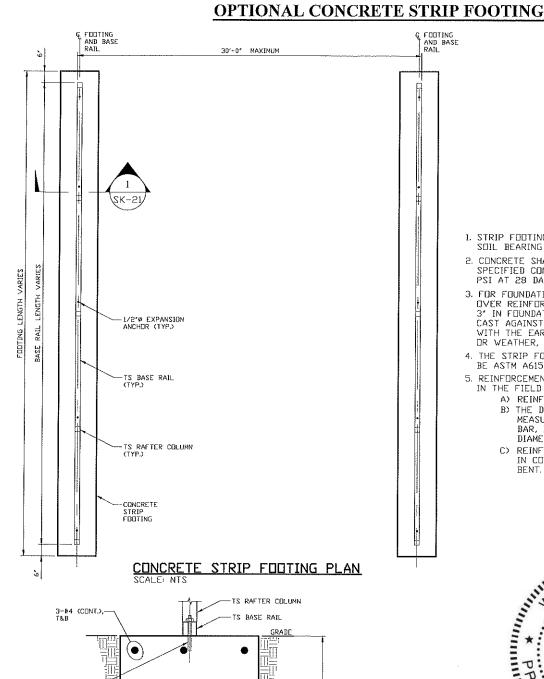
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	CHECKED BY: PDH			STRUCUTRE EXP. B
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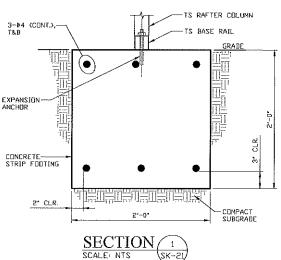




- 2. CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
- 3. FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND I 1/2' ELSEWHERE.
- 4. THE STRIP FOOTING REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- 5. REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:

 - A) REINFORCEMENT IS BENT COLD.

 B) 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



* COORDINATE WITH LOCAL CODES/ORD.

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CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" FULLY OPEN STRUCUTRE EXP. B		
PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	JDB ND: 16022S/ 17300S/18028S/20352S
CLIENT: TBS	SHT. 21	DWG. ND: SK-1	REV₄ 6