

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

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MOORE AND A ENGINEERING AND C	SSOCIATES CONSULTING, INC.	/N BY: JG KED BY: PDH	30'-0"x20'-0	ULAR BUILDING SYSTEM " ENCLOSED BUILDING E SEAL COVER SHEET	AS EXP. B
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MOORE AND ASSOCIATES	DRAWN BYI JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B		
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO 16022S/ 17300S/20352S
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SHEET 21

STRIP FOOTING OPTION

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR A MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DUNE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CUDE (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 LDW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 8! 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 END WALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
- 7 RISK CATEGORY I
- 8 WIND EXPUSURE CATEGORY B
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" x 1
- 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" (342 PITCH) OR LESS
 SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY MARY ROOF SLOPES LESS THAN 312 REQUIRE USE OF JOINT SEALANT
- 12 STANDARD ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 5. OF EACH COLUMN
- 13 STANDARD SROUND ANCHORS (SDIC NAILS) CUNSIST OF #4 REBAR W/WELDED NUT × 30° LONS IN SUITABLE SDIC CONDITIONS MAY BE USED FOR LOW < ≤ 108 MPH NOMINALS WIND SPEEDS ONLY OPTIONAL ANCHORASE MAY BE USED IN SUITABLE SDICS AND MUST BE USED IN UNSUITABLE SDICS AS NOTED COORDINATE WITH LOCAL CODES/ORDINANCES RECARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION
- 14 WIND FEPSES SOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE

SGIL SITE CLASS = D. RISK CATEGORY I

3₀₅= 1522 g V= 0₅V

Soi= 0839 B



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

PROJECT MGRI WSM DATE: 7-29-21

SCALE: NTS

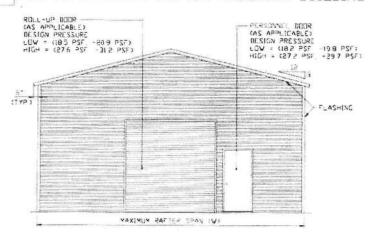
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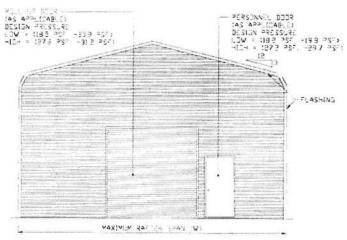
DWG, NO SK-3

BOX EAVE FRAME RAFTER ENCLOSED BUILDING

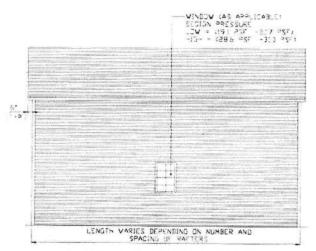


TYPICAL END ELEVATION

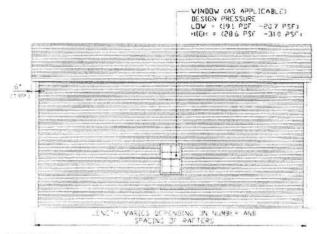
BOW FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION



TYPICAL SIDE ELEVATION

SO/ONAL EMILITY

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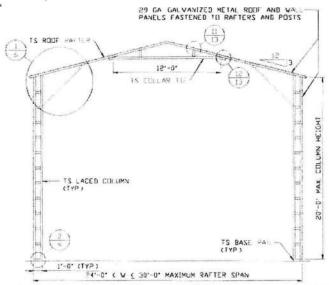
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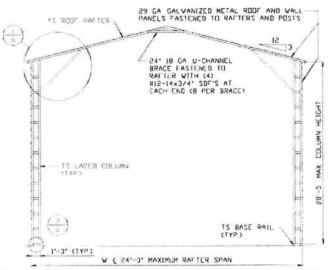
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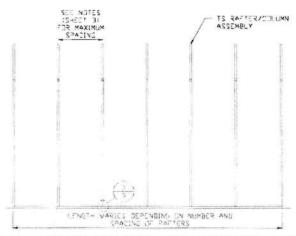
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TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



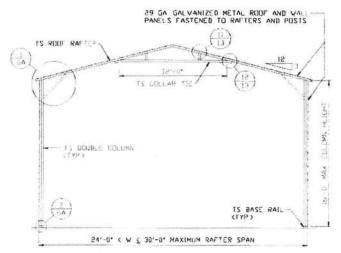
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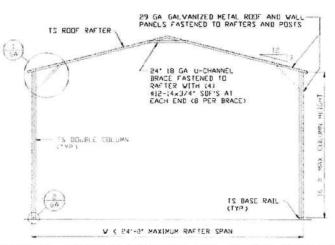
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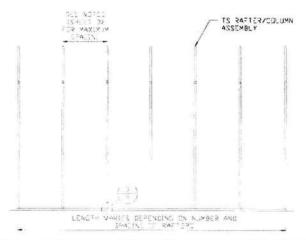
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PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		8 ND: 160225/ 1005/203525
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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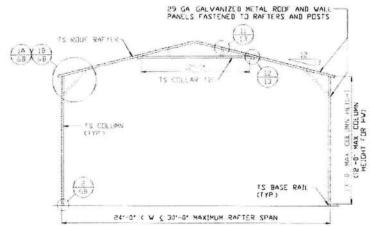
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631 SE INDUSTRIAL CIRCLE			
LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
DATE: 7-29-21	SCALE: NTS	JOB NO 16022S 17300S/20352S	
	63 LA 30'-0"x20'-	LAKE CITY, FLOI 30'-0"x20'-0" ENCLOSED	

SHT. 5A

CLIENT: TBS



PANELS FASTENED TO RAFTERS AND POSTS

TS ROOF RAFTER

24' 18 GA U-CHANNEL
BRACE FASTENED TO
RAFTER VITH (4)
BI2-14x3/4' SDF'S AT
EACH END :8 PER BRACE)

TS BASE RAIL
(TYP)

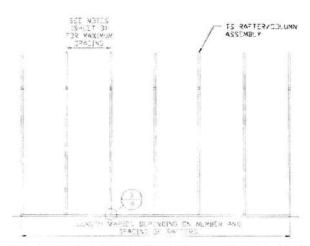
TS BASE RAIL
(TYP)

V . 24'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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TUBULAR BUILDING SYSTEMS

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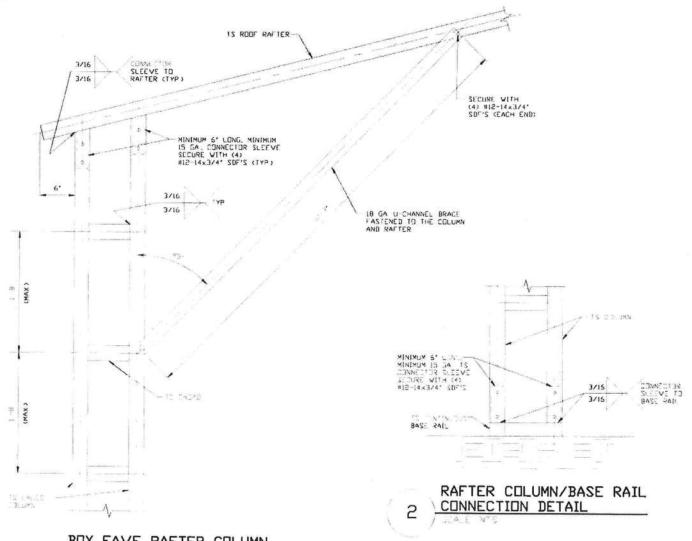
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CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED BUILDING EXP			
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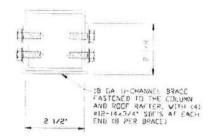
RDJECT MGR: WSM DATE: 7-29-21

SCALE: NTS 17300S/20352S

CLIENT: TBS SHT. 5B DWG. NO: SK-3



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



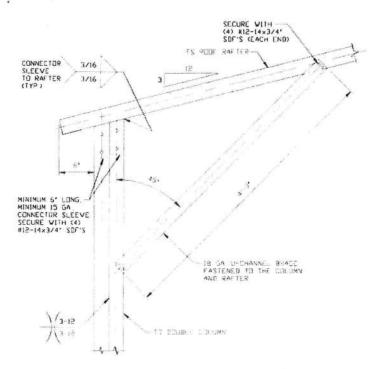
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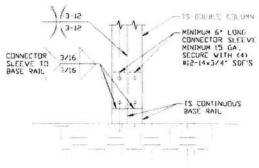
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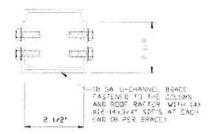


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

MOTE COLUMN HEIGHTS 12'-0" < TO & 15'-0" FOR HIGH WIND



RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NTS



BRACE SECTION

1



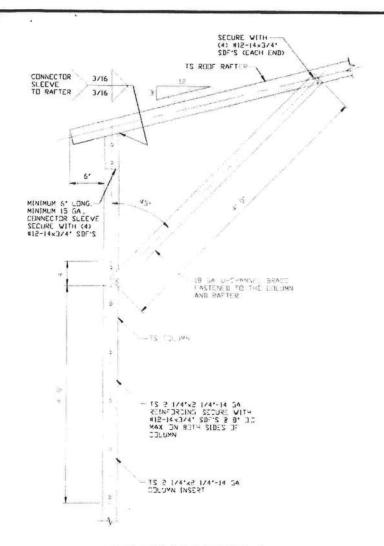
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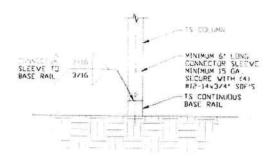


BOX EAVE RAFTER COLUMN CONNECTION DETAIL

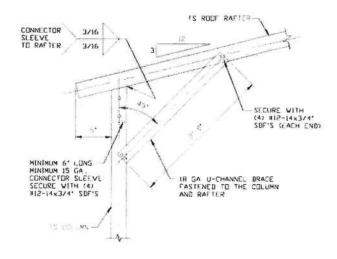
FOR HEIGHTS 10'-0' < TO & 13'-0'

STALE NTS

ACITE MAXIMUM COLUMN HEIGHT IS 12' 0' FOR HIGH

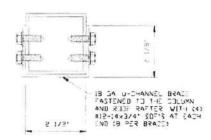


2 RAFTER COLUMN/BASE RAIL

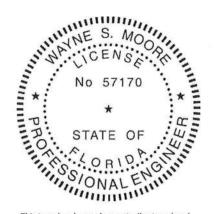


BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS & 10'-0"



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

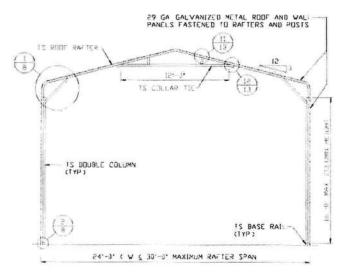
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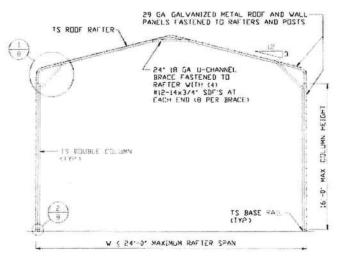
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JOB NO 160225/ 173005/203525

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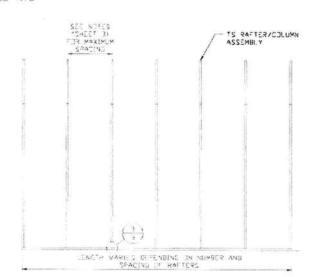
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TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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INC.	CHECKED BY: PDH

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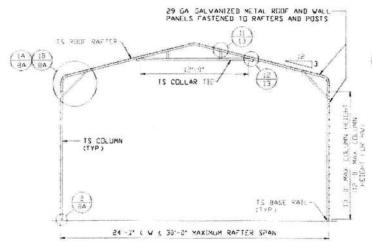
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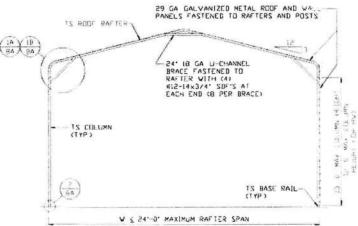
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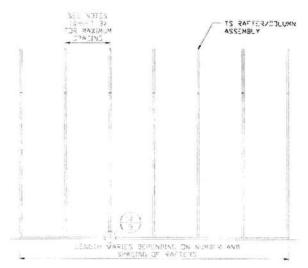
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TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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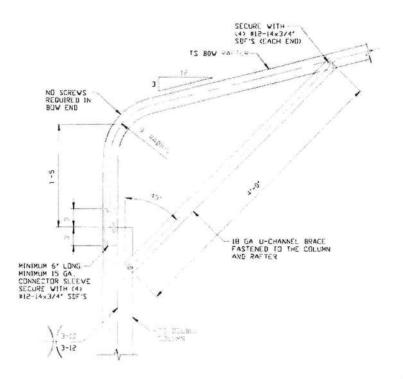
TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B

PROJECT MGR: WSM	DATE: 7-29-21	
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JOB NO: 160225/ 173005/203525 SCALE: NTS

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GONNECTOR
SLEEVE TO
BASE PAIL

3-12

15 DOUBLE COLUMN

MINIMUM 6' LUNG,
CONNECTOR SLEEVE
MINIMUM 15 GA,
SECURE VITH (4)
812-14x3/4' SDF'S

TS CENTINUOUS
BASE RAIL

RAFTER COLUMN/BASE RAIL

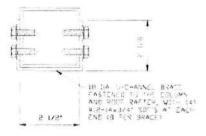
CONNECTION DETAIL

BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 13'-0" < TO < 16'-0"

SCALE NTS

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



BRACE SECTION

No 57170

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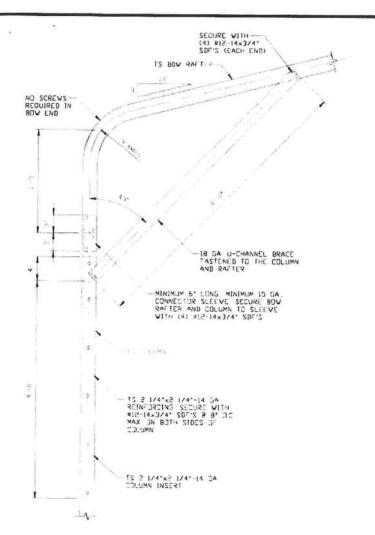
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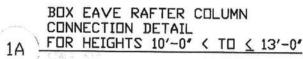
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TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE
LAKE CITY. FLORIDA 32025
CHECKED BY: PDH 30'-0"x20'-0" ENCLOSED BUILDING EXP. B

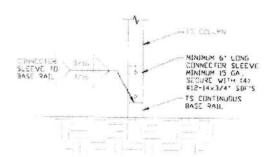
PROJECT MGR: WSM DATE: 7-29-21 SCALE: NTS JOB NO: 160225/
173005/203525

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

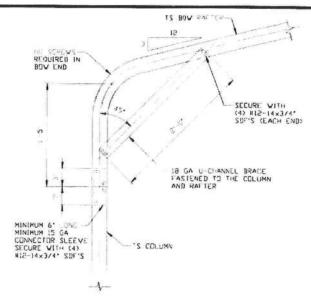




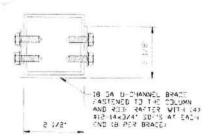
MAXIMUM CELUMN HEIGHT IS 12"-3" FUR HIGH WIND



2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

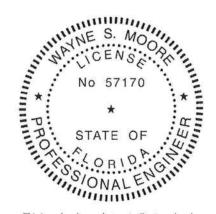


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 10'-0"



BRACE SECTION

1B



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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

PROJECT MGR: WSM DATE: 7-29-21

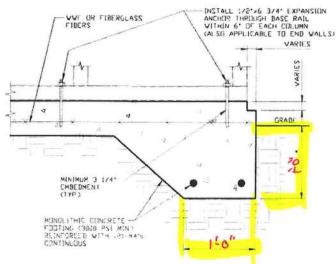
SCALE: NTS

JDB ND: 160225/ 173005/203525

CLIENTI TES SHT. 8A DVG.

DWG. NOI SK-3 REV

BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

> MINIMUM ANCHOR EDGE DISTANCE IS 4" * SUBRDINATE WITH LOSAL SODES/ORD REJARDING MINIMUM FROST DEPTH RES

2" VASHERS DRILL 5/8' DIAMETER HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH LY2' DIAMETER THROUGH BOLT TOP OF ASPHALT-PAVEMENT DR GROUND SURFACE CLI TS CONTINUEUS BASE RAIL

GROUND BASE HELIX ANCHORAGE

SCALE NTS (CAN BE USED FOR ASPHALT) * COURDINATE WITH LOCAL CODES/ORD RESARDING MINIMUM FROST DEPTH REQ

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN ON MINIMUM SOIL BEARING CAPACITY OF 1500 PSF

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PS) AT 28 DAYS

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACT-318

3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST
AND PERMANENTLY IN CONTACT WITH THE EARTH DR 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
 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 PRELCADED SILTS AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT
- FUR MEDIUM DENSE CHARSE SANDS, SANDY GRAVELS VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
- FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6' HELICES WITH MINIMUM 50 INCH EMBEDMENT
- 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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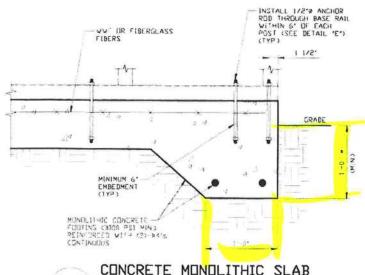
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PROJECT MGR: WSM	DATE: 7-29-21	SCALE, NTS	JDB NO 160225/
CHECKED BY: PDH		KE CITY, FLOR O" ENCLOSED B	IDA 32025 UILDING EXP. B
DRAWN BY: JG	631	JLAR BUILDING SE INDUSTRIA	L CIRCLE

SHT. 9 DWG. NO SK-3 CLIENT: TBS

OPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED



30

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

* CODRIGNATE WITH LOCAL CODESCORD

* CODRIGNATE WITH LOCAL CODESCORD

* CORRESPONDE MINIMUM FROST DEPTH REC

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 ACT-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

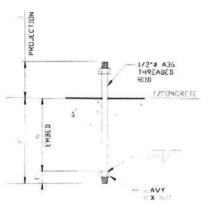
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A195 OR FIBERGLASS FIBER REINFORCEMENT

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

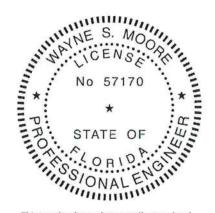
REINFORCEMENT IS BENT COLD

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



ANCHOR ROD THROUGH BASE RAIL DETAIL



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PROJECT MGRI WSM CLIENT: TBS

SCALE NTS

DATE: 7-29-21

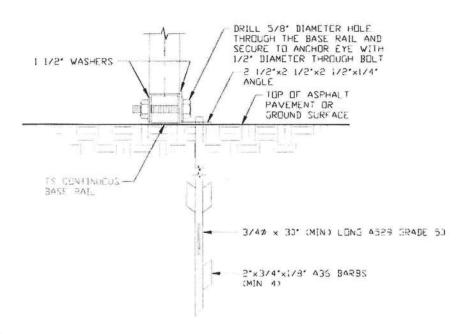
SHT. 9A

JOB NO: 160225/ 173005/203525

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DWG. NO SK-3

BASE RAIL ANCHORAGE OPTION



\ASPHALT BASE ANCHORAGE (HP 9 BARBED DRIVE ANCHOR)

SCALE NTS COAN BE USED FOR ASPHALT) • COORDINATE WITH LOCAL CUBES/ORD RESARDING MINIMUM FROST DEPTH RED

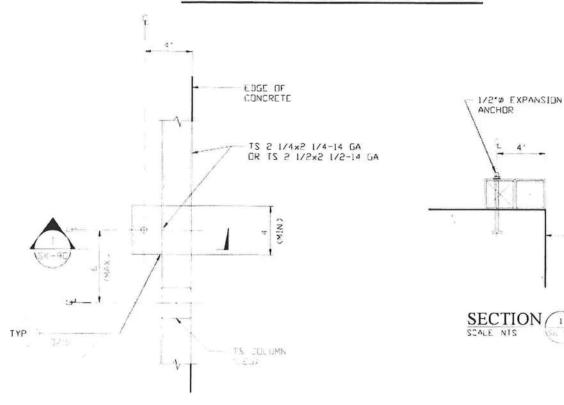


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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING E		L CIRCLE DA 32025
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BASE RAIL ANCHORAGE OPTIONS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



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 PRDJECT MGR: VSM
 DATE: 7-29-21

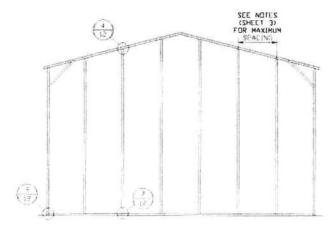
 CLIENT: TBS
 SHT. 9C

SCALE: NTS

JDB ND: 160225/ 173005/203525

SHT. 9C DWG. NO: SK-3

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SEE NOTES
CSHEET 31
FOR MAXIMUM
SPACING

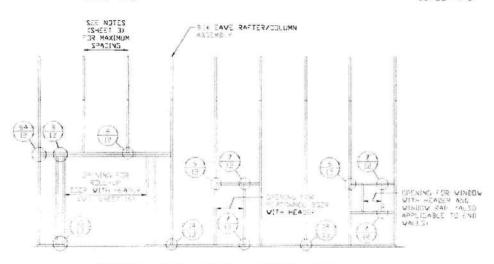
DEER VITH HEALES

CSEE SHEET 160

PERSONNEL DOOR
VITH HEADER

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION



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DWG. NO SK-3

REV. 6

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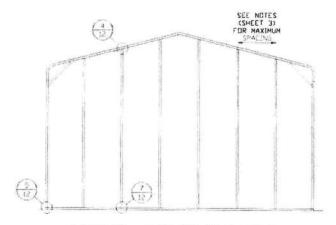
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PROJECT MGR: WSM	DATE: 7-29-21	SCALE, NTS	JOB ND: 160225/	

SHT. 10

CLIENT: TBS

BOW RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

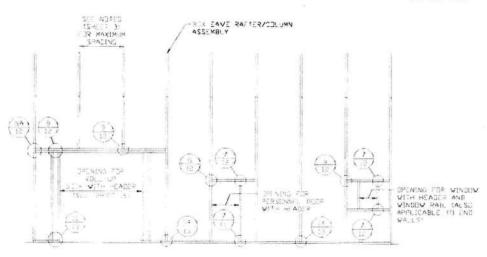
SEE NDICS
(SheET 3)
FOR MAXIMUM
PACING

DPENING FOR
RULL-UP
DETER VITH HEADER

THE SEES LIGHT

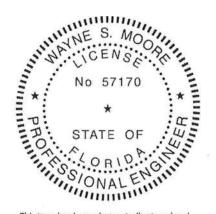
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

STALE NTS



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CLIENT: TBS

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

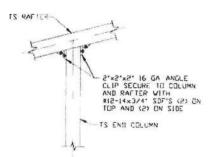
PROJECT MGR: WSM DATE: 7-29-21 SCALE: NTS

SHT. 11

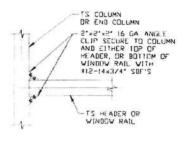
DWG. ND: SK-3

JDB ND: 16022S/ 17300S/20352S

CONNECTION DETAILS



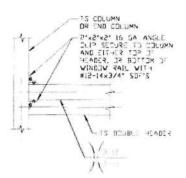
IS COLUMN (CORNER) MINIMUM 6' LONG, HINIMUM 15 GA TS CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4' SOF'S 8:x2:x2: 16 GA CLIP ANGLE SECURE ID RAFTER COLUMN AND BASE RAIL V/(4) BASE RAIL V/(4) CONNECTOR SLEEVE TO BASE RAIL 3/16 3/16 TS CONTINUOUS BASE RAIL

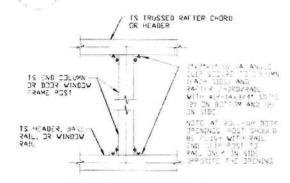


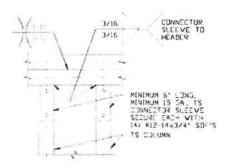
END COLUMN/RAFTER CONNECTION DETAIL 4

END COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

HEADER OR WINDOW RAIL TO COLUMN CONNECTION DETAIL



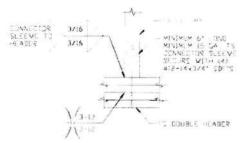




DOUBLE HEADER TO COLUMN CONNECTION DETAIL

COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL SCALE NTS

DOUBLE HEADER/COLUMN CONNECTION DETAIL 8



9

COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE NTS



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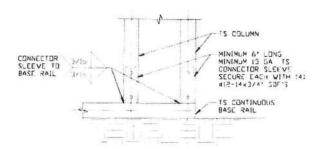
DRAWN BY: JG CHECKED BY: PDH

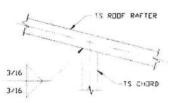
TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B JDB ND: 160225/

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PROJECT MGR: WSM DATE: 7-29-21 SCALE: NTS 173005/203525 SHT. 12 CLIENT: TBS DWG. NO SK-3

CONNECTION DETAILS





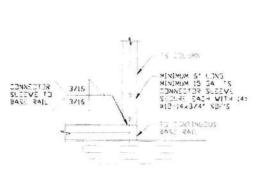


10 COLUMN/BASE RAIL CONNECTION DETAIL

RAFTER TO CHORD CONNECTION DETAIL

SCALE NES

12 COLLAR TIE CONNECTION DETAIL



IS END COLUMN

IS END COLUMN

IS END COLUMN

IS HEADER BAR

RIS-14x3/4* SD-'S

RIL DR VINDOV

RIL DR VINDOV

RIL DR VINDOV

COLUMN TO HEADER,

13 CONNECTION DETAIL

BASE RAIL CONNECTION DETAIL



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ŀ	DRAWN BY: JG
I	CHECKED BY: PDH

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

CLIENT: TBS SHT. 13

SCALE: NTS JDB ND: 16022S/ 17300S/20352S DVG. ND: SK-3 REV.: 6

BOX EAVE RAFTER LEAN-TO OPTIONS ROOF EXTENSION STANDARD MAIN STRUCTURE OPTION LEAN-TO OPTION

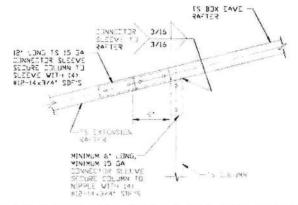
BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN) TYPICAL

SCALE: NTS MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS TOR MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LAKED COLUMNS FOR EAVE HEIGHTS 13'-0' (12'-0' FOR HIGH WIND) (TO (15'-0')

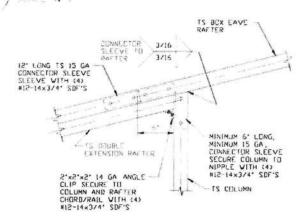
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 13'-0' (12'-0' FOR HIGH WIND) (TO (15'-0')

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



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



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS 15'-0" < TO < 24'-0"



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ζ.	CHECKED	BY	PDH

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

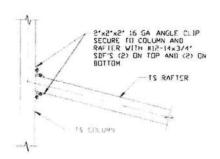
PROJECT MGRI WSM		DATE: 7-29-21	SCALE: NTS	JDB ND: 160225/ 173005/203525	
	CLIENT: TBS	SHT. 14	DWG. NO: SK-3	REV. 6	

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SHT. 14

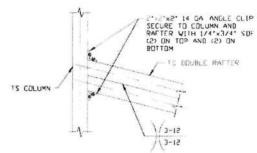
IDWG. NO: SK-3

BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

FOR RAFTER SPANS & 15'-0'



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

16A) SCALE: NTS



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DRAWN	D B	Yı PD	н

30'

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

PROJECT MGRI VSM DATE: 7-29-21

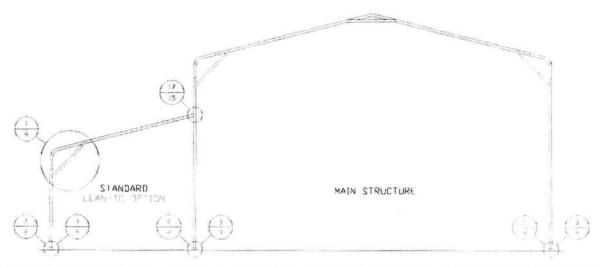
9-21 SCALE: NTS

JDB ND: 16022S/ 17300S/20352S

CLIENT: TBS

SHT. 14A DWG. ND: SK-3

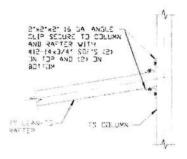
BOW RAFTER LEAN-TO OPTIONS



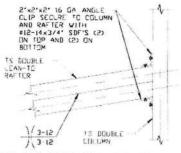
BOW RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN) TYPICAL

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 10'-0' (TO & 13'-0' FOR HIGH WIND) (WITH 4'-4' INSERT)

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



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

17A SCALE NTS



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DRAWN BY: JG	TUBULAR BUILDING SYSTEM 631 SE INDUSTRIAL CIRCLE
	LAKE CITY, FLORIDA 32025
CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED BUILDING

PROJECT MGR: WSM

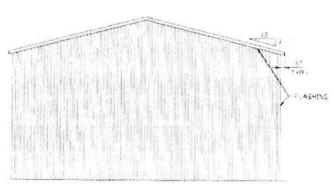
DATE: 7-29-21	SCALE: NTS	JDB ND: 16022S/ 17300S/20352S
	30'-0"x20'-	30'-0"x20'-0" ENCLOSED DATE: 7-29-21 SCALE: NTS

BUILDING SYSTEMS

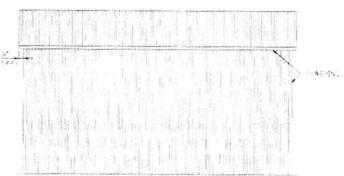
SHT. 15 CLIENT: TBS

DWG. ND: SK-3

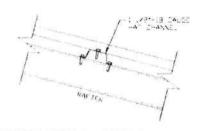
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING OPTION

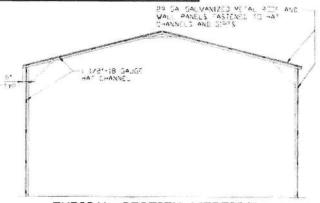


TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING OPTION

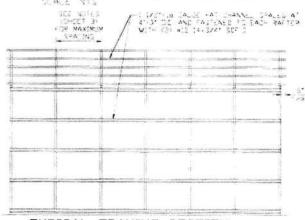


ROOF PANEL ATTACHMENT

14_TERNATE FOR VERTICAL ROOF PANELS:
SCALE NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

MAKA II



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DRA	WN	BY	JG	
CHE	CKE	D B	Yı F	PDH

TÜBÜLAR 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

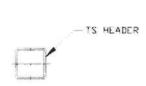
SCALE: NTS

JOB NO 16022S/ 17300S/20352S

CLIENT: TBS SHT. 16

DWG. NO SK-3

SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS & 10'-0'

3/16 3/16 TYP

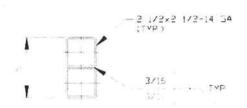
HEADER DETAIL FOR DOOR OPENINGS 10'-0" < LENGTH ≤ 15'-0"

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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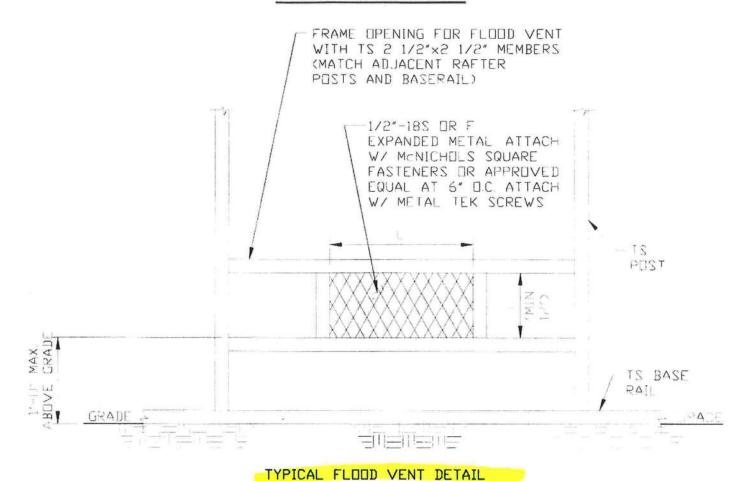
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CLIENT: TBS	DATE: 7-29-21 SHT. 17	DWG. ND: SK-3	173	00S/20352S REV.: 6	_
CHECKED BY: PDH	30'-0"x20'-	-0" ENCLOSED		NO 16022S/	_
OUTOUTE BY BRIE		KE CITY, FLOR			
DRAWN BYI JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE				

FLOOD VENT DETAIL



- I MINIMUM VENT SPACE REQUIRED = 1 SO INCH OF OPEN VENT AREA PER SO FOOT OF BUILDING AREA
- 2 THERE SHALL BE A MINIMUM OF TWO DPENINGS ON DIFFERENT SIDES FOR EACH ENCLOSED BUILDING
- 3 APPLY 13 FACTOR WHEN CALCULATING TOTAL OPEN AREA WHEN JSING 1/2*-186A S OR F EXPANDED METAL
- 4 TOTAL OPEN AREA OF VENT = LXHKMIN 12")
- 5 FLOGD VENT DETAIL COMPLIES WITH FEMA/NFIP
- 6 PREFABRICATED FLOCO VENTS MEETING THE REQUIREMENTS OF FEMAL/NIFIP MAY BE USED

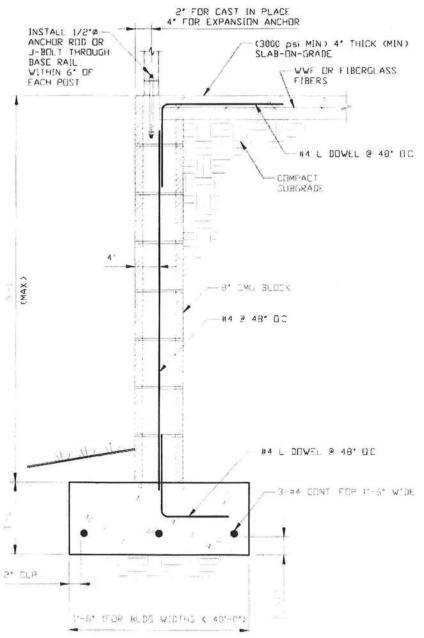


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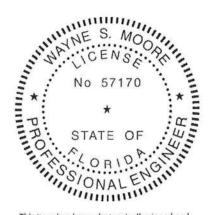
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STAND -ALONE STEM WALL DETAIL



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



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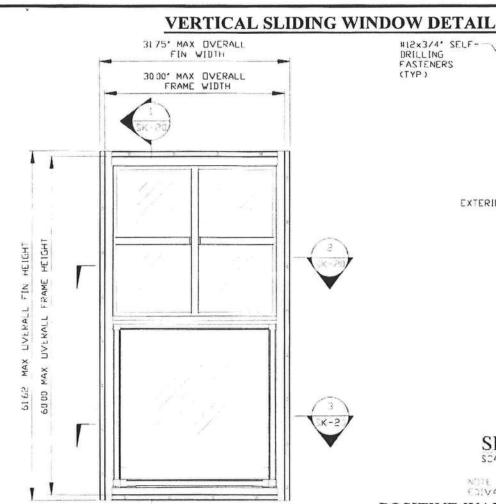
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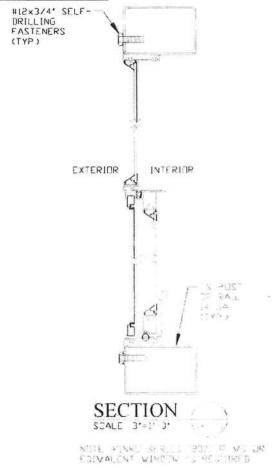
	IDD NO. 16
CHECKED BY PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EX
DRAWN BYI JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE

PROJECT MGR: WSM

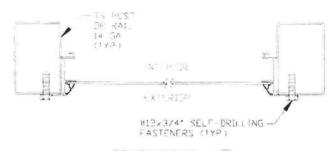
LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
DATE: 7-29-21	SCALE: NTS	JDB ND: 16022\$/ 17300\$/20352\$		
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SHT. 19 DWG. NO: SK-3 CLIENT: TBS

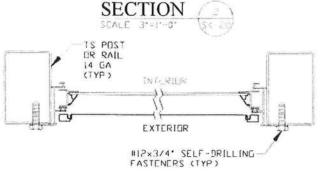




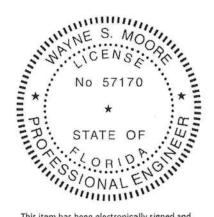
POSITIVE WALL PRESSURE: +40.0 PSF NEGATIVE WALL PRESSURE: -40.0 PSF



ELEVATION VIEW







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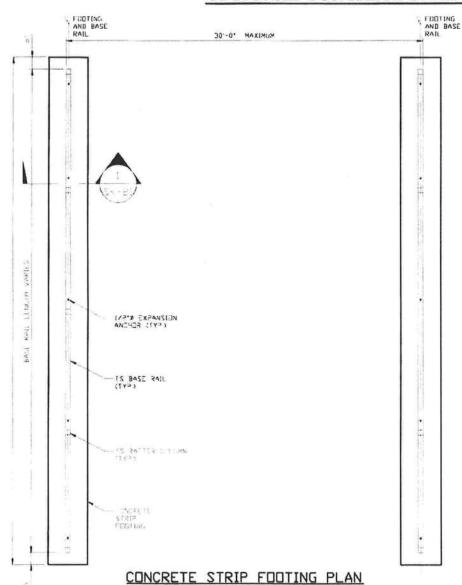
DRAWN BY: JG	
CHECKED BY: PDH	
ODU IECT MED 1/6M	DATE

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
 JDB ND: 16022S/17300S/20352S

 CLIENT: TBS
 SHT. 20
 DWG. ND: SK-3
 REV.: 6

OPTIONAL CONCRETE STRIP FOOTING



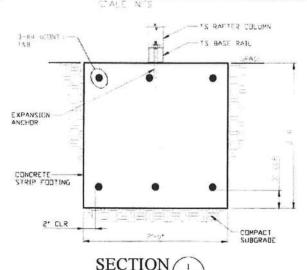
- MUMINIM AC MESAR ADIZED DAITOOR PIREZ 1 729 GGD, ED YELDAGAD DAIROED DIEZ
- P CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH DF 3.000 PSI AT 28 DAYS
- 3 FOR FOUNDATIONS MINIMUM CONTRETE COVER OVER REINFORCING BARS GIVEL BE PER ACT 318 3' IN FOUNDATIONS WHERE THE CONTRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND : 172" ELSEWHERE
- THE STRIP FOUTING PENFORTING STEEL SHALL BE ASTM ASIS GRADE SO
- 5 REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED

 - A) REINFORTION IS BENT THE BENT.

 B) THE BLAMETER OF THE BEND.

 MEASURED BN THE INSTOC OF THE

 BAR IS NOT TEST THAN SIX-BAR PLAMETERS
 - D) REINTERLIMENT PARTALLY EMBEDDED IN CONCELLS SHALL NOT BE FIELD BENT



SK-21

* COURDINATE WITH LOCAL CUDES/ORD

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INC.	CHECKED BY: PDH				
: AND	BBD (ECT MCD: VC				

CLIENT: TBS

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

DWG, NO SK-3

JOB NO 160225/

173005/203525

REV. 6

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