

STRUCTURAL DESIGN **ENCLOSED BUILDING**

MAXIMUM 30'-0" WIDE X 14'-0" EAVE HEIGHT-**BOX EAVE FRAME AND BOW FRAME**

HIGH WIND SPEED (140 MPH < VULT ≤ 170 MPH) PACKAGE FOR THE STATES OF FLORIDA, SOUTH CAROLINA AND GEORGIA

12 February 2021 **Revision 6** M&A Project No. 15079S/16195S/17155S/17200S/18068S/20019S/20324S

Prepared for:

Steel Buildings and Structures, Inc. P.O. Box 1287 Mt. Airy, NC 27030

Prepared by:

Moore and Associates Engineering and Consulting,

1009 East Avenue North Augusta, SC 29841

401 S. Main St., Suite 200 Mt. Airy, NC 27030

Wayne S Moore Date: 2022.01.27

Digitally signed by Wayne S Moore 17:30:30 -05'00'







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INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0' WIDE x 14'-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

NOTE: CUNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)

- 4 3-SECOND GUST HIGH ULTIMATE WIND SPEED = 141 TO 170 MPH (NOMINAL WIND SPEED = 108 TO 132 MPH):
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 40 FEET (UNLESS NOTED OTHERWISE).
- 6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS 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" x 2 L/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS. (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR AND EDGE) = 8 INCHES; 6 INCHES (FL).
- 11 FASTENERS CONSIST OF 1/4°×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 LAP JOINT SEALANT
- 12 GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES
- 13. WIND FURCES GOVERN OVER SEISMIC FURCES. SEISMIC PARAMETERS ANALYZED ARE:

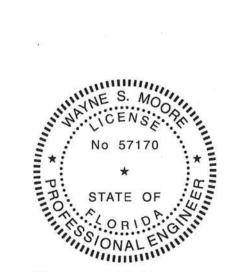
SDIL SITE CLASS = D RISK CATEGORY I

R= 325

I_E= 10

 $S_{DS} = 2039 g$ $S_{DI} = 1.258 g$ V= CsW

14 WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY



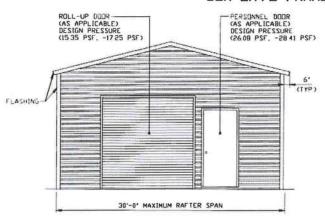
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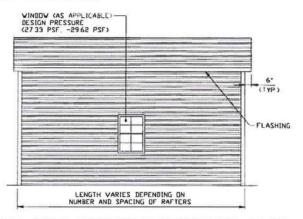
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CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRUCTURE					
PROJECT MGR: VSM	DATE: 2-12-21	SCALE: NTS	JUB NO 17200S/ 18068S/20019S/20324			
CLIENT: SBSI	знт. э	DVG. NO SK-	-3	REV. 6		

BOX EAVE FRAME RAFTER STRUCTURE

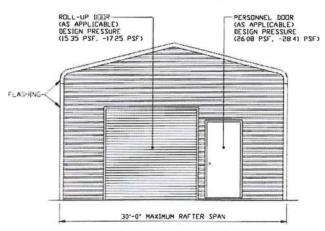




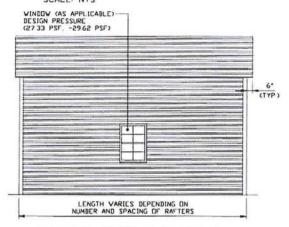
TYPICAL END ELEVATION-HORIZONTAL ROOF SCALE: NTS

TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION SCALE: NTS

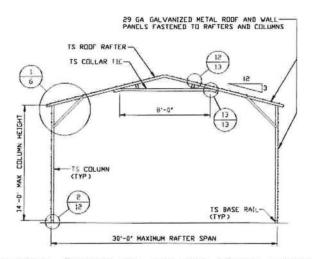


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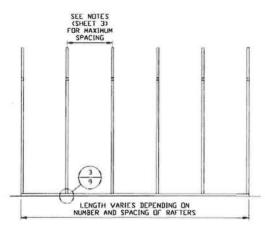
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

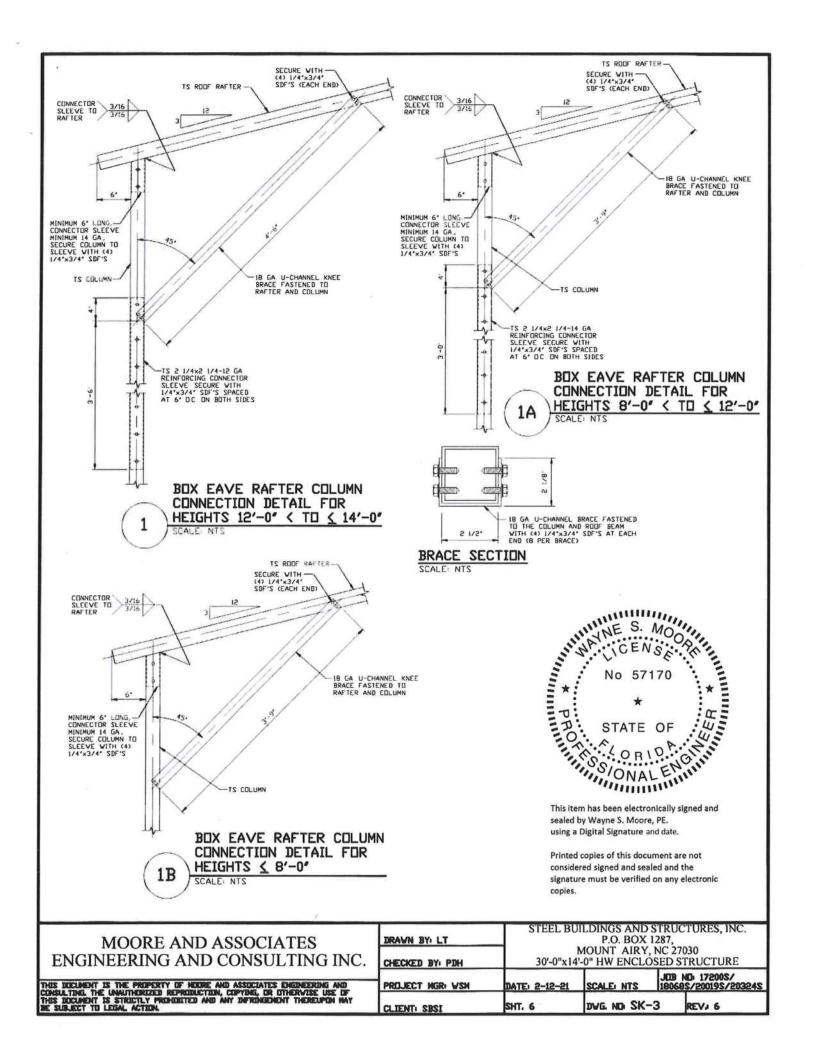


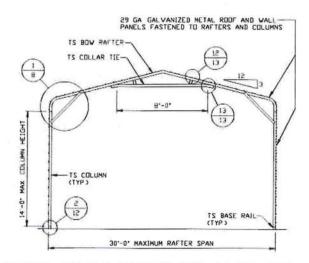
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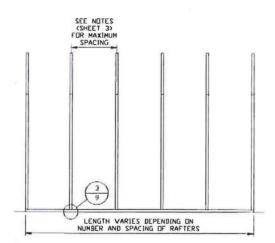
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TYPICAL RAFTER/COLUMN END FRAME SECTION

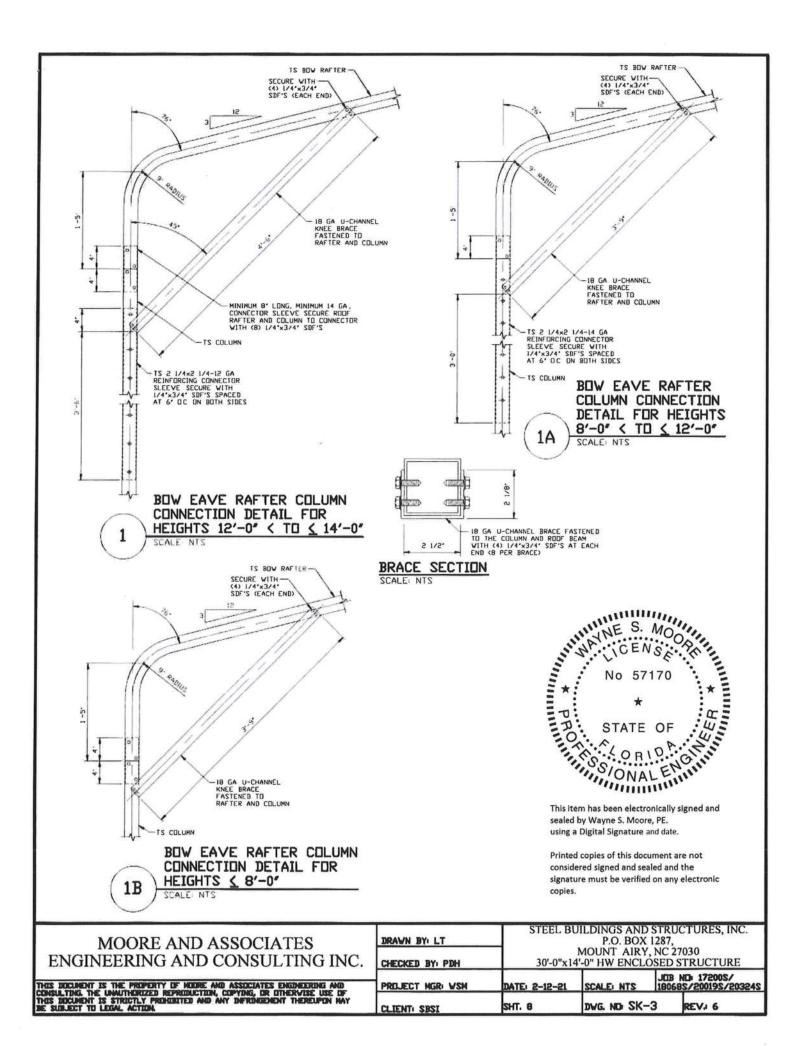


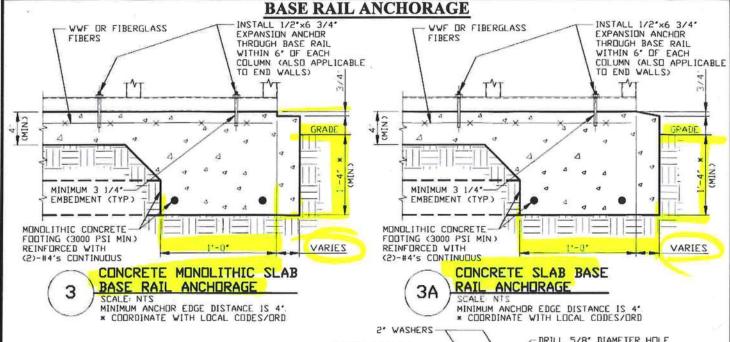
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION SCALE: NTS



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GENERAL NOTES

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

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' 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.

REINFORCING STEEL

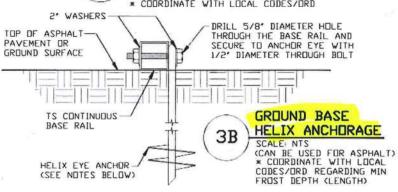
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 DR FIBERGLASS FIBER REINFORCEMENT

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

- 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" EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 3 FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.





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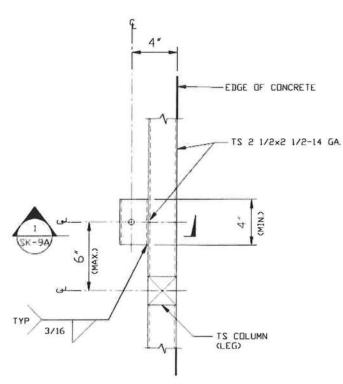
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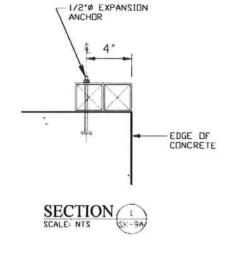
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-	PROJECT NGR: VSM	DATE: 2-12-21	SCALE: NTS	JOB 19066	ND 17200S/ S/20019S/20324S
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BASE RAIL ANCHORAGE OPTION





TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



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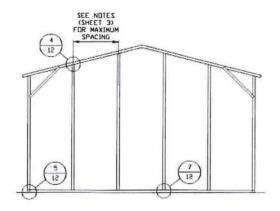
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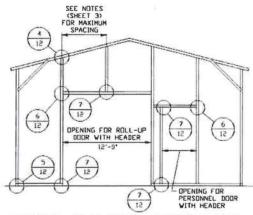
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



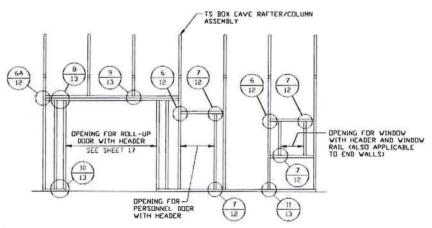
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



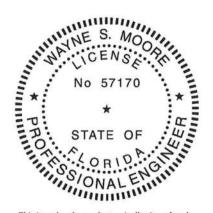
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



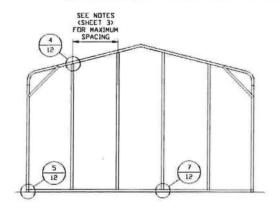
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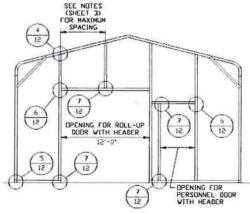
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



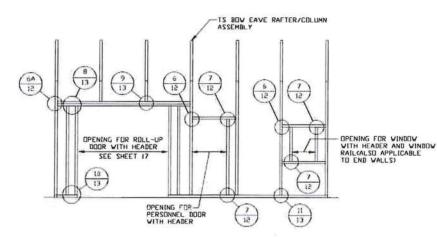
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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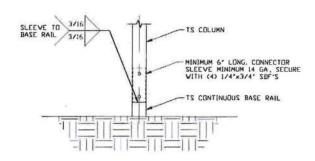
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CONNECTION DETAILS



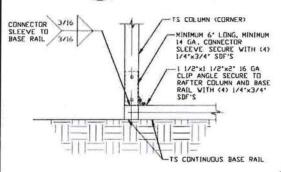
TS ROOF RAFTER 2'x2'x2' 16 GA ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH 1/4'x3/4' SDF'S 2 ON TOP AND 2 ON SIDE TS END COLUMN

2

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

END COLUMN/RAFTER CONNECTION DETAIL



2'x2'x2' 16 GA ANGLE CLIP SECURE TO COLUMN AND EITHER TOP OF HEADER OR BOTTOM OF WINDOW RAIL VITH 1/4'x3/4' SDF'S TS HEADER DR

OR END COLUMN -2'x2'x2' I6 GA ANGLE CLIP SECURE TO COLUMN AND EITHER TOP OF HEADER, OR BOTTOM OF WINDOW RAIL WITH 1/4'x3/4' SDF'S TS DOUBLE HEADER 3-12

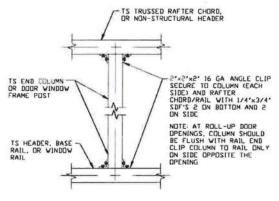
END COLUMN/BASE RAIL CONNECTION DETAIL STALF NTS

5

COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL SCALE: NTS

6

COLUMN OR DOUBLE HEADER TO POST CONNECTION DETAIL 6A SCALE NTS



No 57170

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

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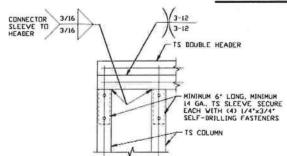
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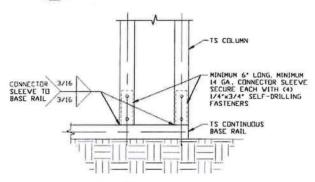
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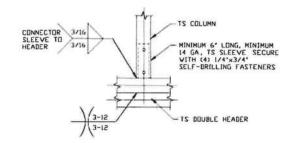
CONNECTION DETAILS



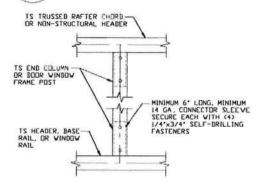
8 DOUBLE HEADER/COLUMN SCALE: NTS



10 COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

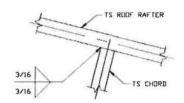


9 COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS



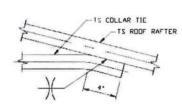
11 COLUMN TO HEADER OR BASE RAIL

SCALE: NTS



RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS



13 CONNECTION DETAIL



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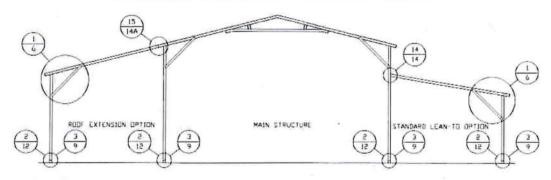
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DRAWN BY: LT CHECKED BY: PDH		ILDINGS AND P.O. BOX MOUNT AIRY '-0" HW ENCLO	1287, NC 27	030	
PROJECT NGR: VSM			JOB	IB ND 17200S/ 1068S/20019S/20324S	
CLIENT: SBSI	SHT. 13	DVG. NO SK	-3	REV. 6	

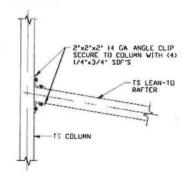
BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS

MAXIMUM WIDTH OF STANDARD ROOF EXTENSION AND LEAN-TO IS 12'-0'
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT
AND TUBING SPECIFICATIONS



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
SCALE: NTS

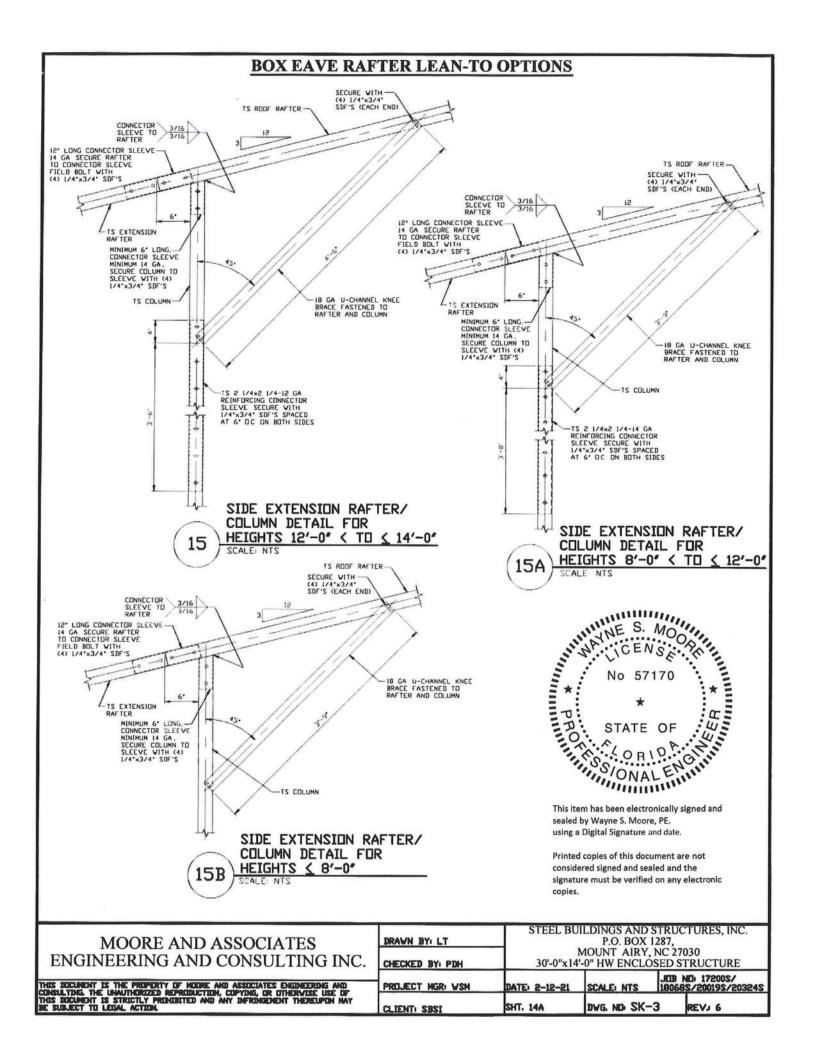


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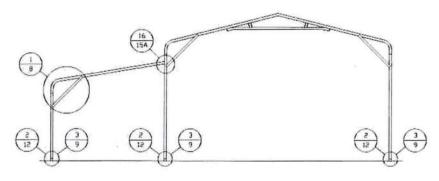
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1	PROJECT MGR: VSM CLIENT: SBSI	DATE: 2-12-21 SHT. 14	DVG. ND: SK	-	9S/20019S/20324S REV.1 6		
		2002		JUB	ND: 17200S/		
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRUCTURE					
	DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,					



BOW RAFTER LEAN-TO OPTION



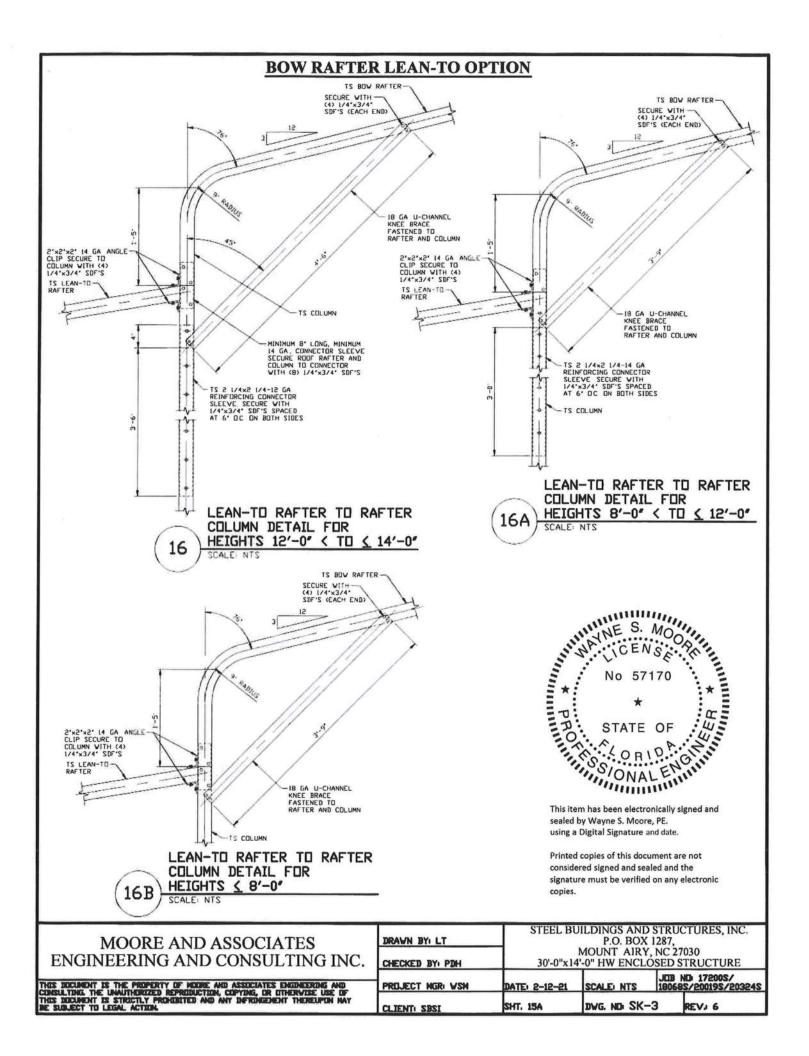
TYPICAL BOW EAVE RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS
MAXIMUM WIDTH OF STANDARD ROOF EXTENSION AND LEAN-TO IS 12'-0'
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.

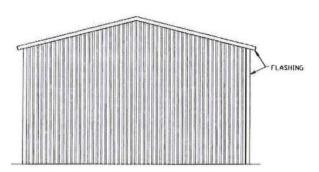


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				JOB	ND: 17200S/		
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING INC.	CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRUCTURE				
MOODE AND ACCOCIATES	DRAWN BY: LT	STEEL BU	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,				

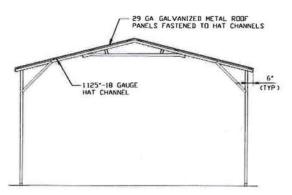


BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



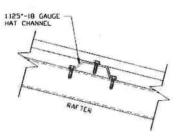
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



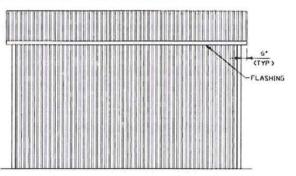
TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS



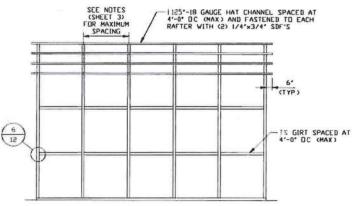
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



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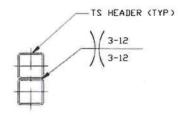
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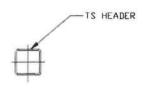
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CHECKED BY: PDH	30'-0"x14'-0" HW ENCLOSED STRUCTURE				
PROJECT MGR: VSM	DATE: 2-12-21	SCALE: NTS	JUB 1806	ND: 17200S/ 8S/20019S/20324S	
CLIENT: SBSI	SHT. 16	DVG. NO SK-3		REV. 6	

OPTIONAL HEADERS





DOUBLE HEADER DETAIL FOR DOOR OPENINGS 10'-0" < LENGTH \(\) 12'-0" SCALE: NTS

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



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MOORE AND ASSOCIATES	DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRUCTURE				
ENGINEERING AND CONSULTING INC.	CHECKED BY: PDH					
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