





# STRUCTURAL DESIGN ENCLOSED BUILDING

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

11 December 2020 Revision 9 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S/20324S

# Prepared for:

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

### Prepared by:

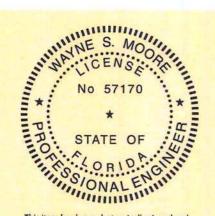
Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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

Wayne S Moore Date: 2021.10.21 09:29:58 -04'00'





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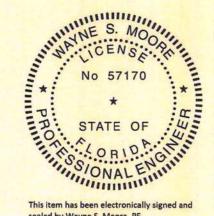
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STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE

PROJECT MGR: WSM	DATE: 12-11-20		JUB ND 18068S/18156S 18290S/20019S/20324S
CLIENT: SBSI	SHT. 2	DVG. ND: SK-	3 REV. 9

### INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 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

= 30 PSF (< 26'-0"), 35 PSF (26'-0" ( W < 30'-0")

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

- 4 3-SECOND GUST ULTIMATE WIND SPEED (Vult) = 105 TO 145 MPH (NOMINAL WIND SPEED = 82 TO 112 MPH):
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 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
- B. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING DN-CENTERS ALDNG RAFTERS DR HAT CHANNELS, AND COLUMNS (INTERIOR DR END) = 8 INCHES
- 11 FASTENERS CONSIST OF 1/4\*x3/4\* 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" DF EACH COLUMN.
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY BE USED IN SUITABLE SOILS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

R= 325

Ic= 10 V= C<sub>2</sub>V

Sps- 2039 g Spi= 1258 g

15 WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA DNLY



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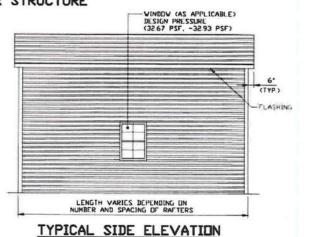
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į,	CHECKED BY: PDH	5240300000000000	MOUNT AIRY, 20'-0" ENCLOS		
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JUB 1829	ND 18068S/18156S 0S/20019S/20324S
	CLIENT: SBSI	SHT. 3	DVG. NO SK-	-3	REV. 9

# BOX EAVE FRAME RAFTER STRUCTURE PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE (177 PSF. -1985 PSF) FLASHING 30'-0' MAXIMUM RAFTER SPAN (V) LEN NUMBER BOX EAVE FRAME RAFTER STRUCTURE PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE (312 PSF. -2164 PSF) LEN NUMBER LEN NUMBER LEN NUMBER LEN NUMBER CON PROCEDURE PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE (312 PSF. -2164 PSF) LEN NUMBER LEN NUMBER

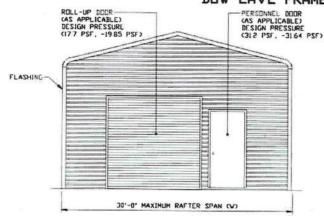


# TYPICAL END ELEVATION

SCALE: NTS

SCALE: NTS

# BOW EAVE FRAME RAFTER STRUCTURE



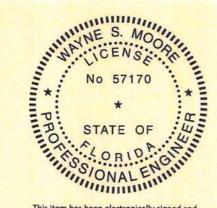


WINDOW (AS APPLICABLE) DESIGN PRESSURE (32.67 PSF. -32.93 PSF)

# TYPICAL END ELEVATION SCALE: NTS

TYPICAL SIDE ELEVATION
SCALE: NTS

LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS



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DWG. NO SK-3

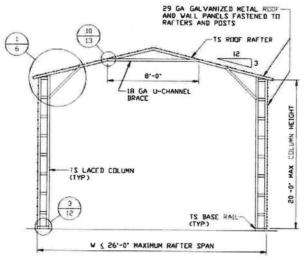
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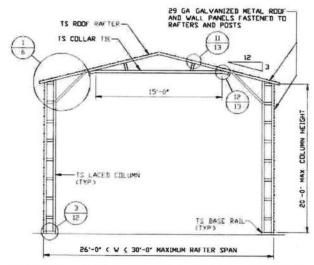
SHT. 4

CLIENT: SBSI

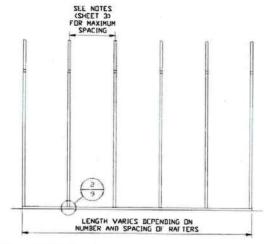
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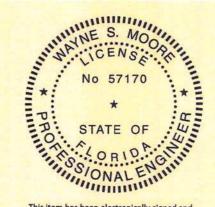
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

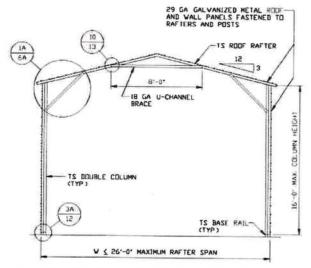


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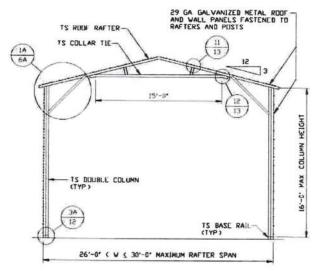
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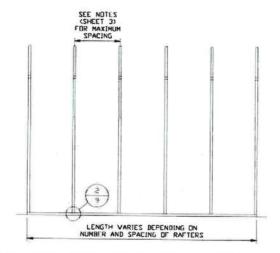
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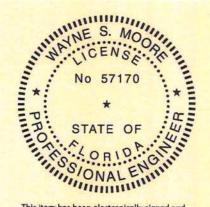
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

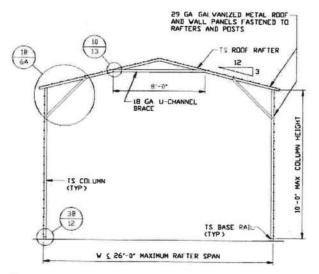


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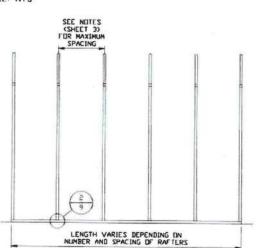
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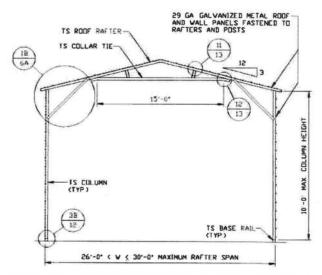
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_	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JEB 1829	ND 180685/181565 05/200195/203245	
	CLIENT: SBSI	SHT. 5A	DVG. ND SK-	-3	REV. 9	



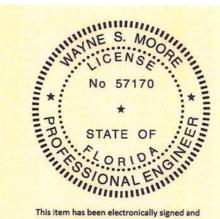
# TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

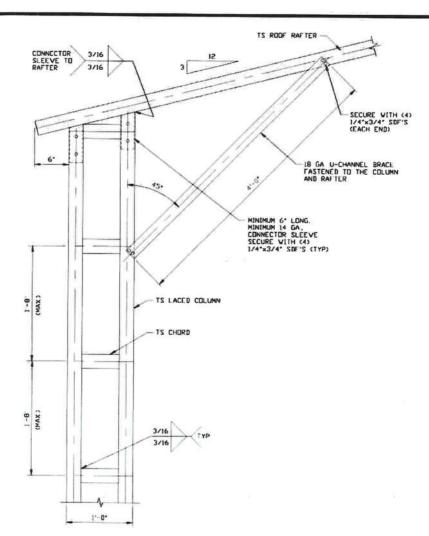


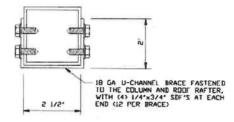
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



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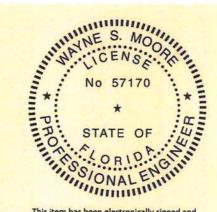


# BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 16'-0' < TO < 20'-0'

SCALE: NTS



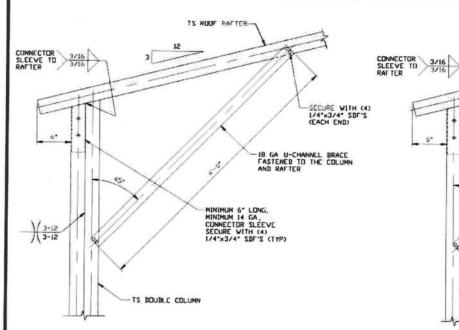
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	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
	DRAWN BY: LT	P.O. BOX 1287,				



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO < 16'-0'

SECURE VITH (4)

1/4\*x3/4\* SDF'S

GEACH END)

18 GA U-CHANNEL BRACE
FASTENED TO THE COLUMN
AND RAFTER

MINIMUM 14 GA.
CONNECTUR SLEEVE
SECURE VITH (4)
1/4\*x3/4\* SDF'S (TYP)

TS COLUMN

BOX EAVE RAFTER/CORNER POST

1B CONNECTION DETAIL

FOR HEIGHTS 

\$10'-0'

18 GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROUF RAFTER. VITH (4) 1/4\*3/4\* SDF'S AT EACH END (8 PER BRACE)

BRACE SECTION

SCALE: NTS

1A



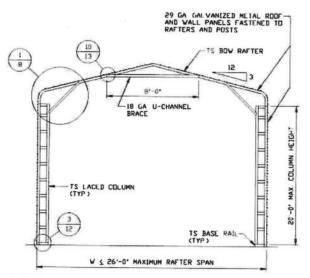
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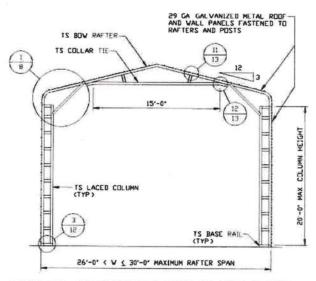
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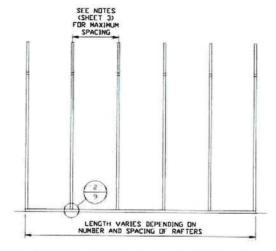
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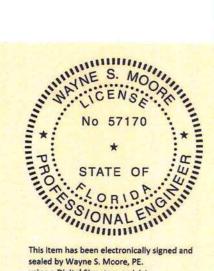
RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



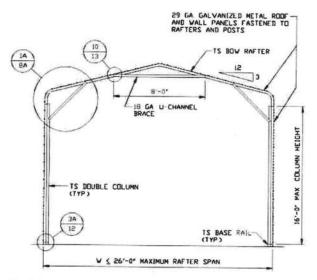
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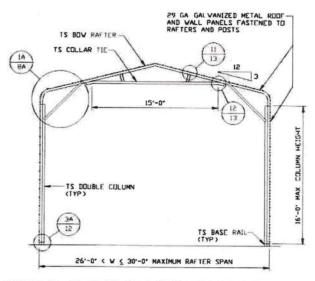
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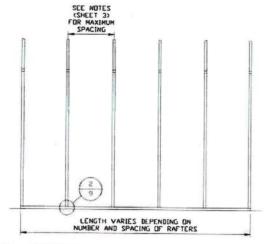
DRAWN BY: LT	P.O. BOX 1287.				
CHECKED BY: PDH	MOUNT AIRY, NC 27030				
PROJECT NGR: VSM	DATE: 12-11-20	SCALE: NTS	JUB 1829	ND: 18068\$/18156\$ 0\$/20019\$/20324\$	
CLIENT: SBSI	SHT. 7	DWG. NO SK-	-3	REV. 9	



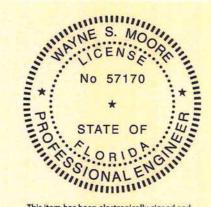
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



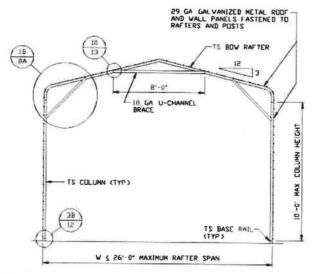
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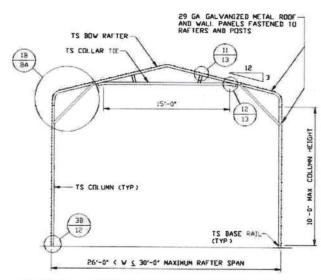
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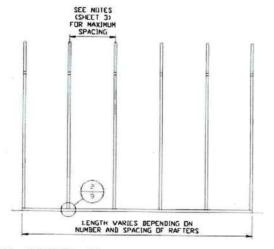
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	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS 18290		ND: 180685/181565 05/200195/203245	
	CLIENT: SBSI	SHT. 7A	DWG. NO SK	-3	REVJ 9	



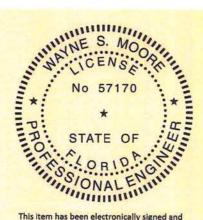
TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



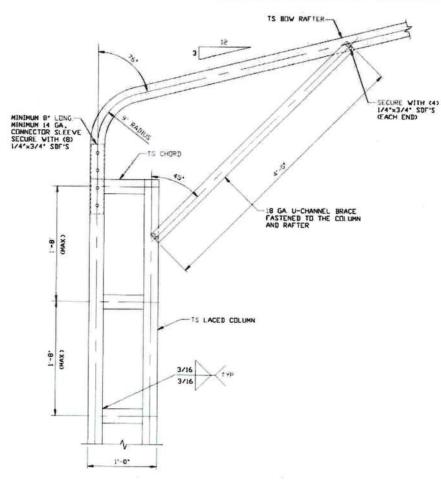
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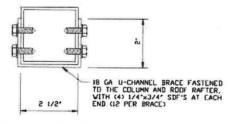
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	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
_	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JUB	ND 18068\$/18156\$ 0\$/20019\$/20324\$	
	CI TENTI SPST	SHT. 7B	DWG. ND. SK-	-3	REV. 9	

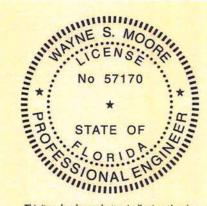




BRACE SECTION
SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 16'-0' < TO \( \) 20'-0'



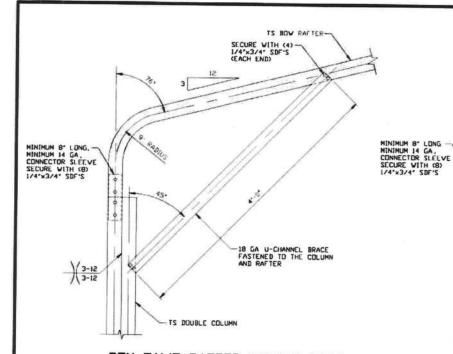
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CLIENT: SBSI	SHT. 8	DVG. ND SK	-3	REV. 9
PROJECT NGR: VSH	DATE: 12-11-20	SCALE: NTS	JOB 1829	ND 18068\$/18156\$ 0\$/20019\$/20324\$
CHECKED BY: PDH		MOUNT AIRY 20'-0" ENCLOS		
DRAWN BY: LT	STEEL BU	P.O. BOX		CTURES, INC.



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

1A FOR HEIGHTS 10'-0' < TO < 16'-0'

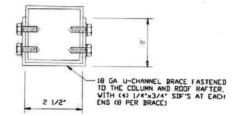
SECURE WITH (4)

1/4\*x3/4\* SDF'S
(EACH END)

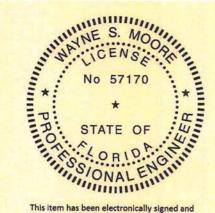
18 GA U-CHANNEL BRACE
FASTENED TO THE COLUMN
AND RAFTER

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0'

1B FUR HE



BRACE SECTION



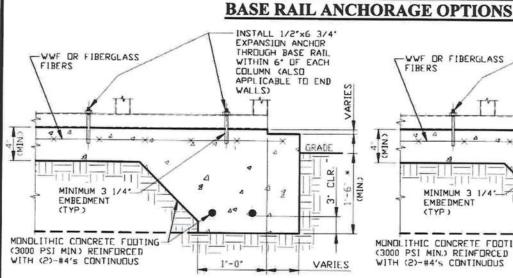
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CLIENT: SBSI	SHT. ØA	DVG. NO SK-	-3	REV. 9	
PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JOB 1829	ND: 18068\$/18156\$ 0\$/20019\$/20324\$	
CHECKED BY: PDH	0040 600 (60000)	MOUNT AIRY 20'-0" ENCLOS			
DRAWN BY: LT	P.O. BOX 1287,				



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE 2 SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 4' \* COORDINATE WITH LOCAL CODES/ORD

# GENERAL NOTES

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

CUNCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3.000 PSI AT 28 DAYS

# COVER OVER REINFORCING STEEL!

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

### REINFORCING STEEL:

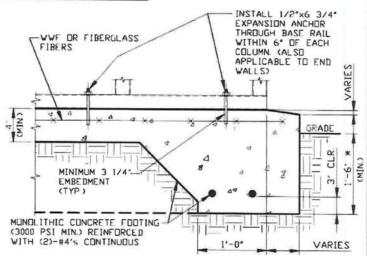
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRADE 60 THE SLAB REINFORCEMENT SHALL BE VELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

### 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

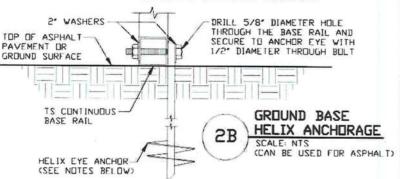
### HELIX ANCHOR NOTES

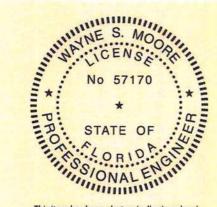
- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND CUBBLES. CALICHE, PRELDADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 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 LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL. USE MINIMUM (2) 6' HELICES WITH MINIMUM
- 5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



CONCRETE SLAB BASE RAIL ANCHORAGE 24 SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 4" \* COORDINATE WITH LOCAL CODES/ORD





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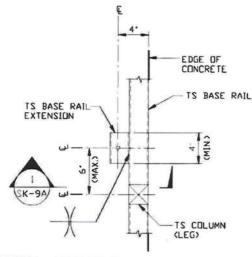
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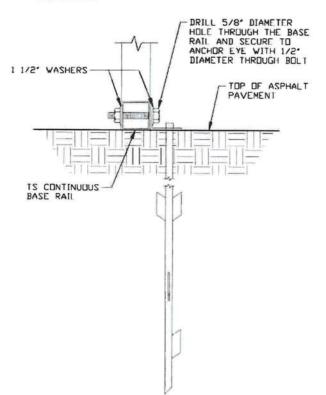
DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287.			
CHECKED BY: PIDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JDB 1829	ND: 18068\$/18156\$ 0\$/20019\$/20324\$
CLIENT) SBSI	SHT. 9	DWG. ND SK	-3	REVJ 9

# **ADDITIONAL BASE RAIL ANCHORAGE OPTION**

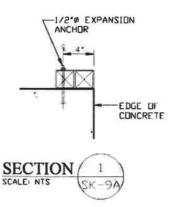


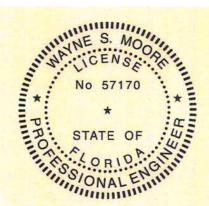
# TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



ASPHALT BASE ANCHORAGE





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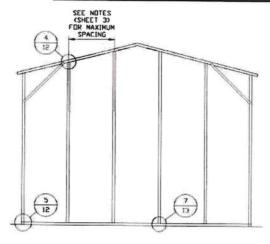
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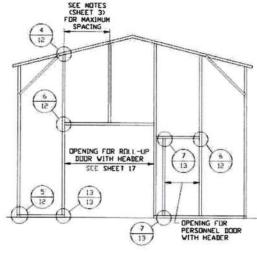
DRAWN BY: LT	P.O. BOX 1287,				
CHECKED BY: PDH	0.001.000.000.000.000	MOUNT AIRY 20'-0" ENCLOS		BIGNETI SEPREMENTAL DE CONTRA LA CON	
PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS		ND 18068\$/18156\$ 90\$/20019\$/20324\$	
CLIENT) SBSI	SHT. 9A	DVG. ND SK	-3	REV. 9	

# **BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



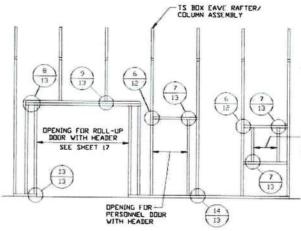
# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

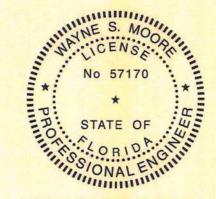
SCALE: NTS



OPENING FOR VINDOV
VITH HEADER AND VINDOV
RAIL (ALSO APPLICABLE
TO END VALLS)

# TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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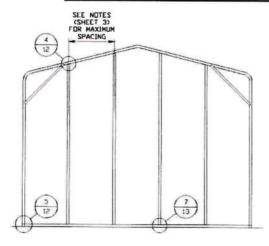
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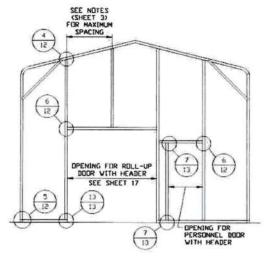
1	I	CLIENT: SBSI	SHT. 10	DVG. ND SK-3		REV. 9
	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JUB 1829	ND: 180685/181565 05/200195/203245	
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
	DRAWN BY: LT	P.O. BOX 1287,				

# **BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



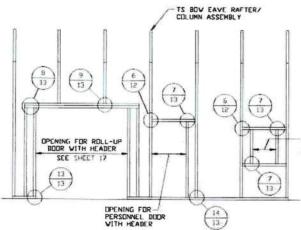
# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



OPENING FOR VINDOV VITH HEADER AND VINDOV RAIL (ALSD APPLICABLE TO END VALLS)

# TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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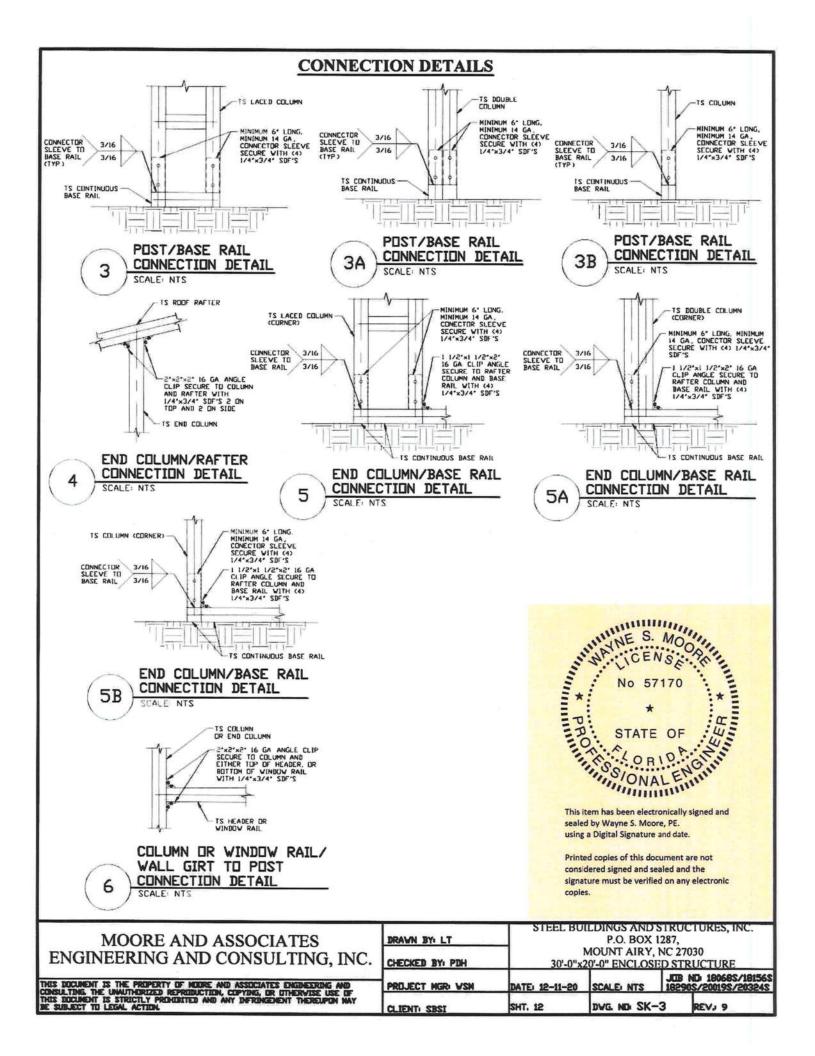
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CLIENT: SBSI

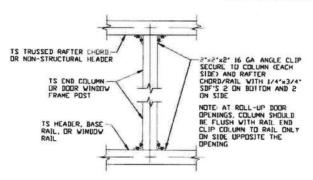
STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE

PROJECT MGR: VSM DATE: 12-11-20 SCALE NTS SHT. 11 DAC NO 2K-3

JUB ND: 180685/181565 182905/200195/203245 REV. 9



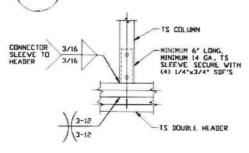
# **CONNECTION DETAILS**



CONNECTOR SLEEVE TO HEADER TS DOUBLE HEADER 3/16 MINIMUM 6' LONG, MINIMUM 14 GA. TS SLEEVE SECURE EACH WITH (4) 1/4"x3/4" SDF'S TS COLUMN

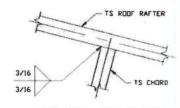
COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL SCALE: NTS

DOUBLE HEADER/COLUMN CONNECTION DETAIL



7

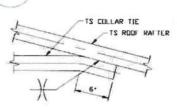
TS ROOF RAFTER 18 GA U-CHANNEL COLLAR TIE ATTACH COLLAR TIE TO ROOF RAFTER WITH (4) 1/4"x3/4" SDF'S (EACH END) COLLAR TIE



COLUMN/DOUBLE HEADER CONNECTION DETAIL 9 SCALE: NTS

CONNECTION DETAIL 10 SCALE: NTS

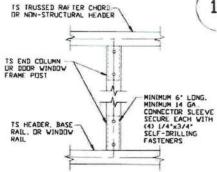
RAFTER TO CHORD CONNECTION DETAIL 11



IS COLUMN MINIMUM 6' LUNG-MINIMUM 14 GA, CUNECTOR SLEEVE SECURE VITH (4) 1/4'x3/4' SDF'S TS CONTINUOUS BASE RAIL

COLLAR TIE CONNECTION DETAIL SCALE: NTS

COLUMN/BASE RAIL CONNECTION DETAIL 13 SCALE: NTS



COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

No 57170

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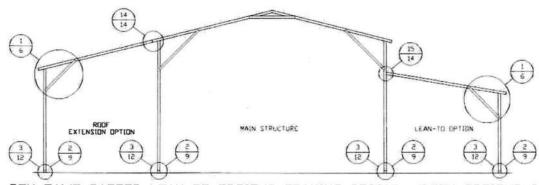
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STEEL BUILDINGS AND STRUCTURES, INC. DRAWN BY: LT CHECKED BY PDH

P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE

JUB ND 180685/181565 182905/200195/203245 PROJECT MGR: WSM DATE: 12-11-20 SCALE: NTS DWG. NO SK-3 SHT. 13 EV. 9 CLIENT: SBSI

# **BOX EAVE RAFTER LEAN-TO OPTIONS**



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

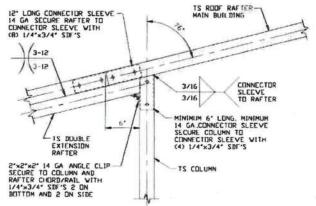
SCALE: NTS

MAXIMUM WIDTH OF SINGLE IS ROOF EXTENSION LEAN-TO IS 12'-0'

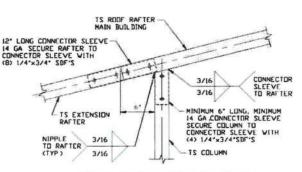
MAXIMUM WIDTH OF DOUBLE IS ROOF EXTENSION LEAN-TO IS 16'-0'.

MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0'

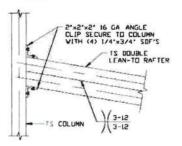
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR RAFTER
SPANS 12'-0' < TO < 16'-0'



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR
RAFTER SPANS & 12'-0'
SCALE: NTS



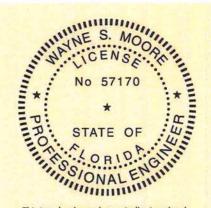
LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS
12'-0' < TO < 16'-0'
SCALE: NTS

15

2'x2'x2' 16 GA ANGLE
CLIP SECURE TO COLUMN
WITH (4) 1/4'x3/4' SDF'S
TS LEAN-TO
RAFTER

LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS & 12'-0'
SCALE NTS

CLIENT: SBSI



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DWG. NO SK-3

REV. 9

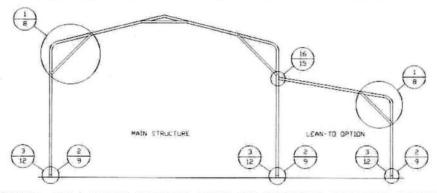
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DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE		
CHECKED BY: PDH			
PROJECT MGR: VSM	DATE: 12-11-20	SCALE NTS	JOB NO 180685/181565 182905/200195/203245

SHT. 14

# **BOW EAVE RAFTER LEAN-TO OPTIONS**



# TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

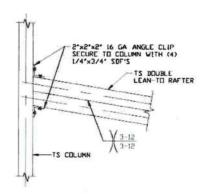
SCALE: NTS SCALE: NIS

MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0'

MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0'.

MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0'

FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < T□ < 16'-0"

2'x2'x2' 16 GA ANGLE CLIP SECURE TO COLUMN WITH (4) 1/4'x3/4' SDF'S TS CULUMN

> LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"

16A

16 SCALE: NTS

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CLIENT: SBSI

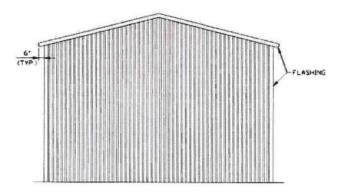
STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE

DVG. ND SK-3

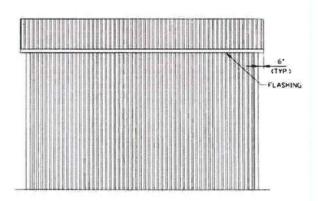
DATE: 12-11-20 PROJECT MGR: WSM SCALE: NTS SHT. 15

JUB ND 18068\$/18156\$ 18290\$/20019\$/20324\$ REV. 9

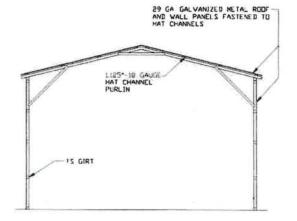
# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



# TYPICAL END ELEVATION VERTICAL ROOF/SIDING

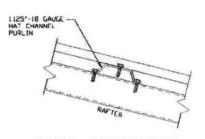


### TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING



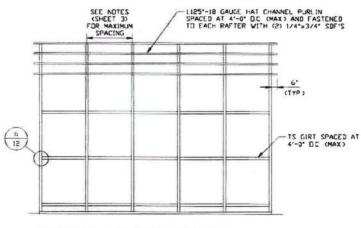
# TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



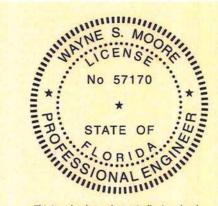
### PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



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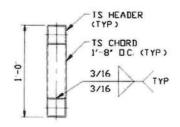
STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,

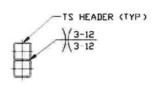
MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE

PROJECT MGR: VSM DATE: 12-11-20 SCALE NTS JUB ND 18068S/18156S 18290S/20019S/20324S

DWG. NO SK-3 SHT. 16 CLIENT: SBSI

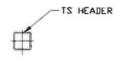
# SIDE WALL HEADER OPTIONS





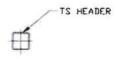
LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0' < LENGTH ≤ 20'-0'

DOUBLE HEADER DETAIL FOR DOOR OPENINGS 7'-0' < LENGTH ≤ 12'-0"

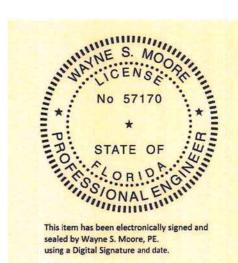


SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 7'-0"

# **END WALL HEADER OPTIONS**



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 12'-0'



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JUB ND 180685/181565 182905/200195/203245

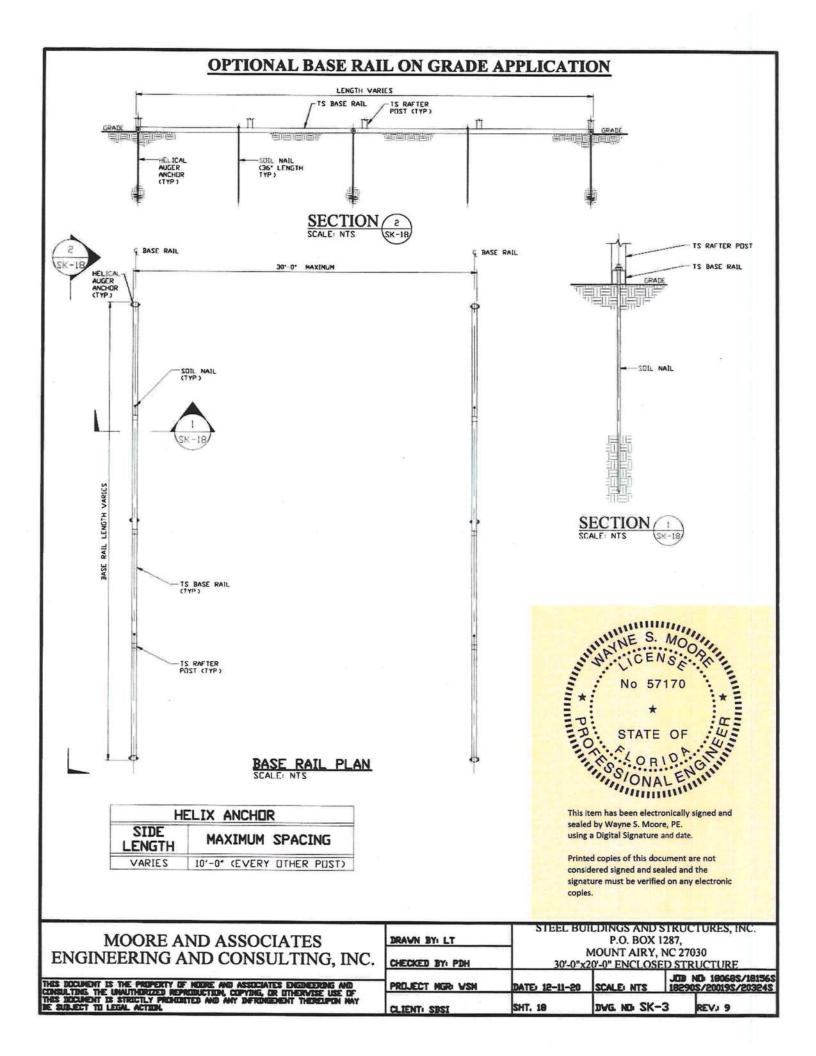
REV. 9

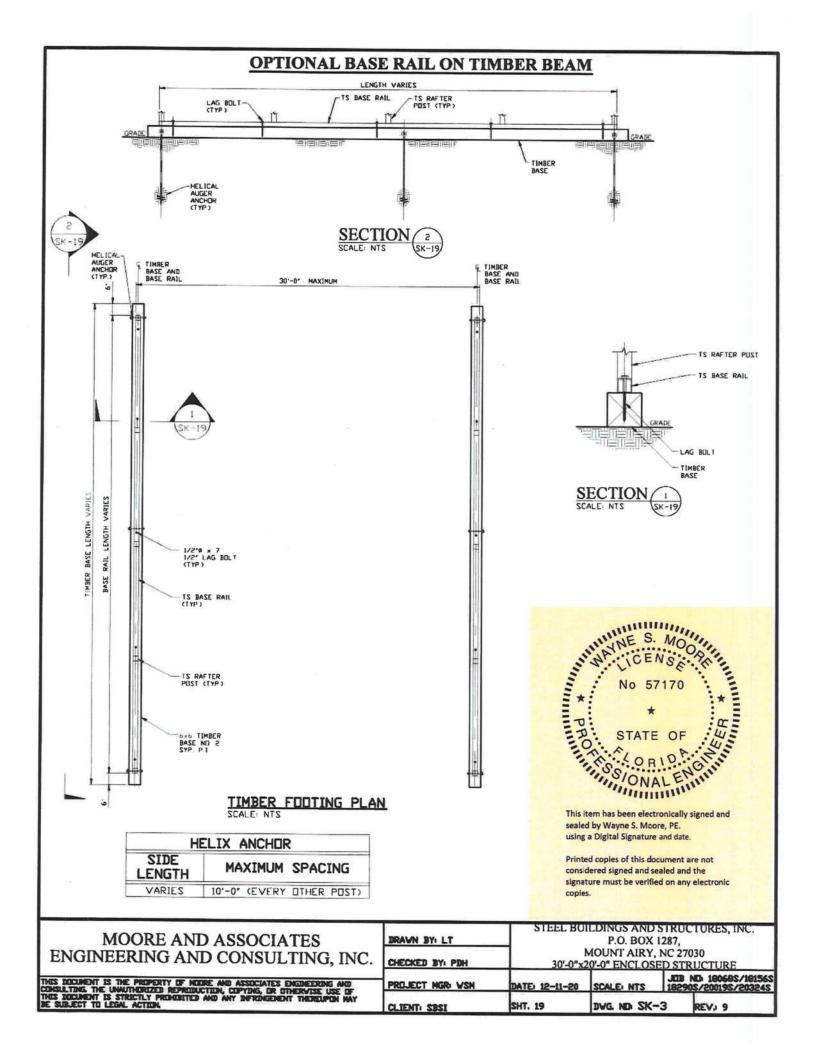
copies.

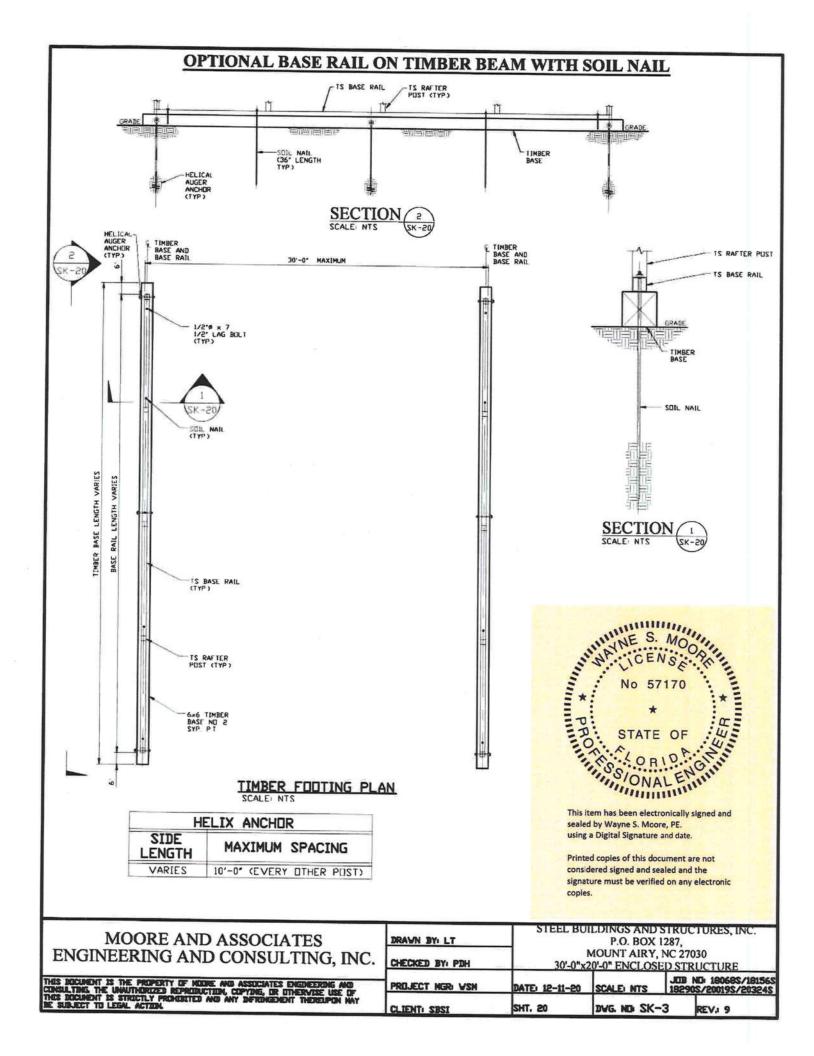
SHT. 17

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# FOOTING AND BASE RAIL FOOTING AND BASE RAIL 30'-0" MAXIMUM VARIES FOOTING LENGTH VARIES LENGTH 1/2'# EXPANSION ANCHOR (TYP) RAIL BASE TS BASE RAIL CONCRETE STRIP FOOTING (3000 PSI MIN) CONCRETE STRIP FOOTING PLAN SCALE: NTS TS RAFTER POST TS BASE RAIL ONAL ENGINE CMIN) 2-#4, CONT T&B INSTALL 1/2'x6 3/4' EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN MINIMUM 3 1/4' EMBEDMENT (TYP) This item has been electronically signed and CLR sealed by Wayne S. Moore, PE. COMPACT SUBGRADE using a Digital Signature and date. Printed copies of this document are not SECTION considered signed and sealed and the SCALE: NTS (SK-51) signature must be verified on any electronic copies. \* COORDINATE WITH LOCAL CODES/ORD STEEL BUILDINGS AND STRUCTURES, INC. MOORE AND ASSOCIATES DRAWN BY LT P.O. BOX 1287, MOUNT AIRY, NC 27030 ENGINEERING AND CONSULTING, INC. CHECKED BY: PBH 30'-0"x20'-0" ENCLOSED STRUCTURE JUB ND 18068\$/18156\$ 18290\$/20019\$/20324\$ THIS BOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS BOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. PROJECT MGR: WSM DATE: 12-11-20 SCALE: NTS SHT. 21 DWG. ND SK-3 REV. 9 CLIENT: SBSI

OPTIONAL CONCRETE STRIP FOOTING