

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







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1	WITH SOIL NAIL
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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 !
- 8. 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 ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR 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 × 36" LONG AND 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:

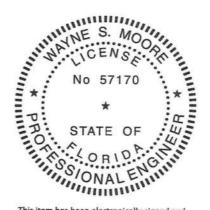
SDIL SITE CLASS = D

RISK CATEGORY I

 $I_E = 10$ V= $C_S W$ R= 325

Sps= 2039 g Sm= 1258 g

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



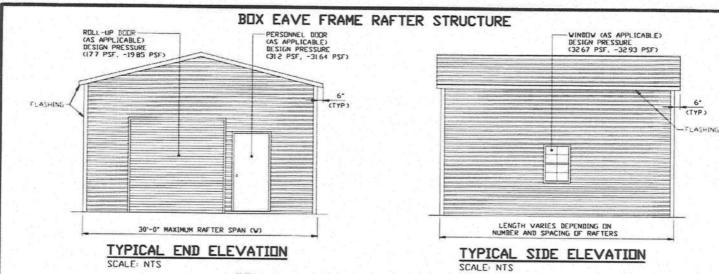
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FLASHING

BOW EAVE FRAME RAFTER STRUCTURE

PERSONNEL DIGIR
(AS APPLICABLE)
DESIGN PRESSURE
(177 PSF. -1985 PSF)

BOW EAVE FRAME RAFTER STRUCTURE

PERSONNEL DIGIR
(AS APPLICABLE)
DESIGN PRESSURE
(312 PSF. -3164 PSF)

30'-0" MAXIMUM RAFTER SPAN (V)

TYPICAL END ELEVATION

TYPICAL

SCALE: NTS

VINDOV (AS APPLICABLE)
DESIGN PRESSURE
(32 67 PSF, -32 93 PSF)

(TYP)
FLASHIN

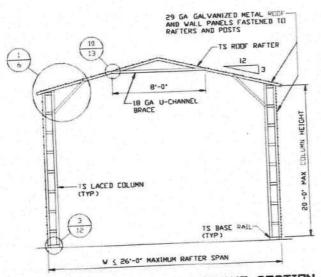
LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERS

TYPICAL SIDE ELEVATION
SCALE: NTS

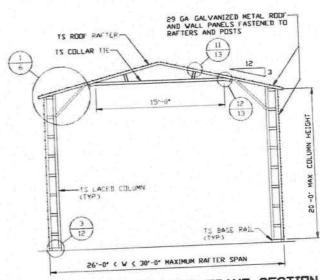


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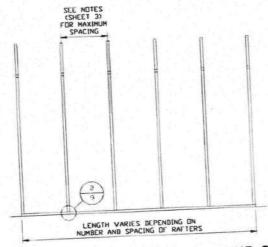
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

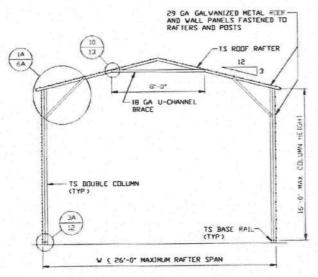


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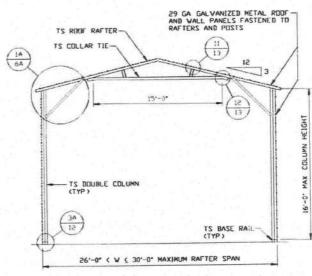


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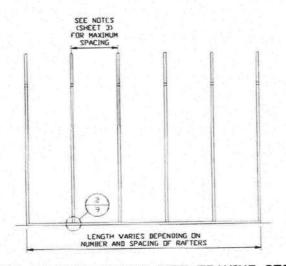
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TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

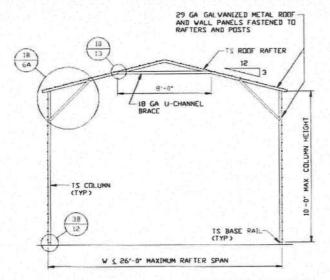


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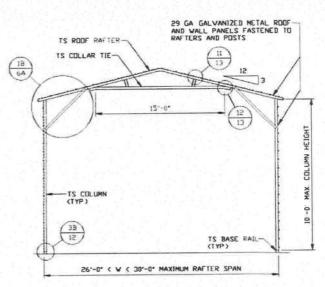


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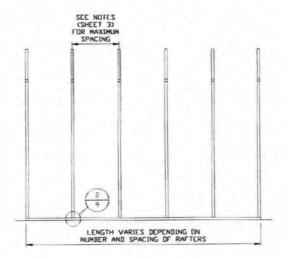
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



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SCALE: NTS

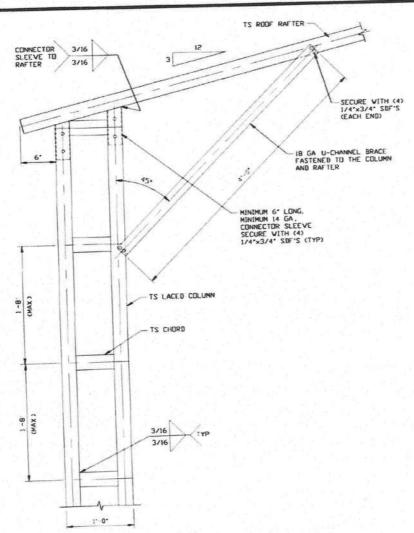


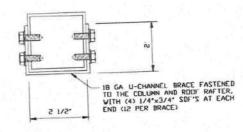
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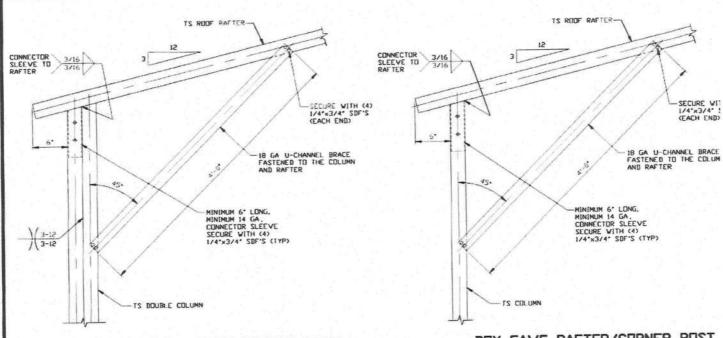
BRACE SECTION
SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO < 20'-0" 1 SCALE: NTS



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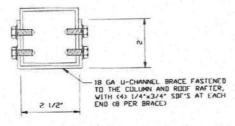
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO < 16'-0'

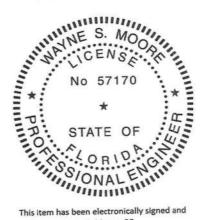
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

1B | FOR HEIGHTS \(\leq \) 10'-0'



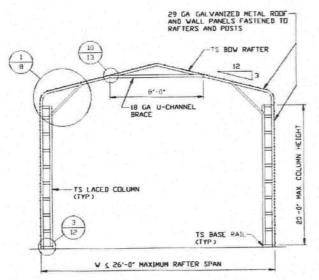
BRACE SECTION

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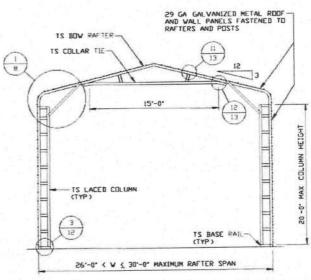


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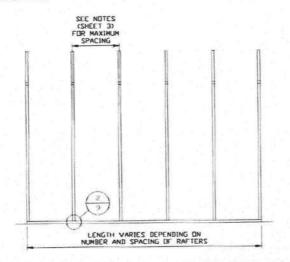
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TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

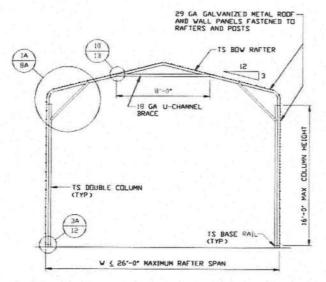


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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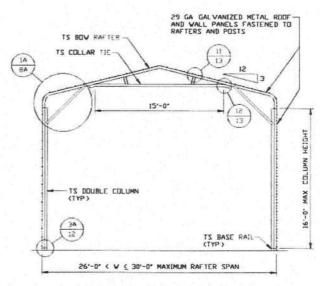


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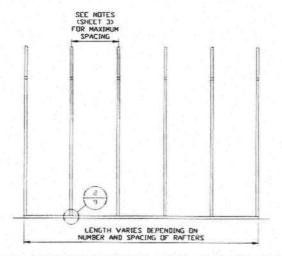
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TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

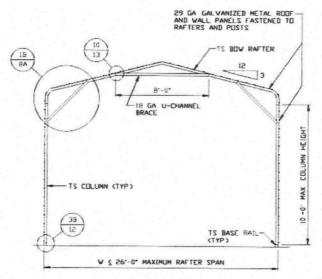


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE NTS

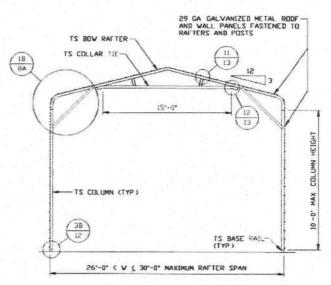


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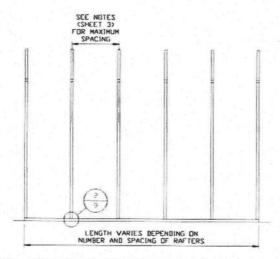
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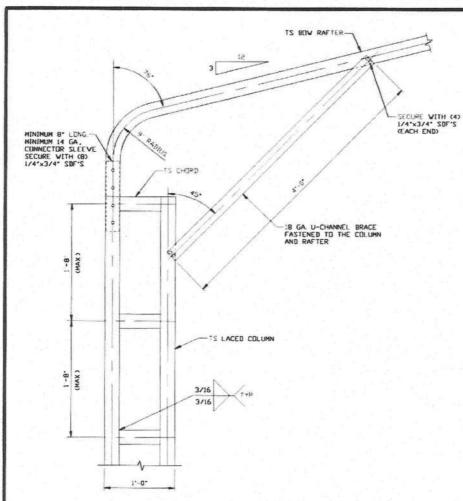


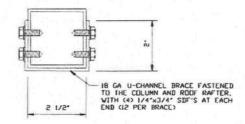
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	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JUB 1829	ND 180685/181 0S/200195/203				
	CLIENT: SBSI	SHT. 7B	DVG. NO SK	-3	REV. 9				





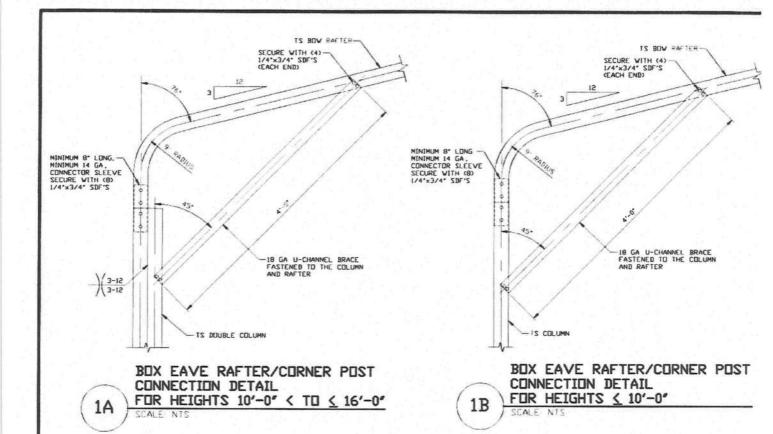
BRACE SECTION

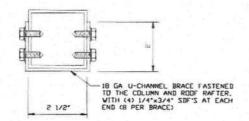
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0" 1 SCALE: NTS



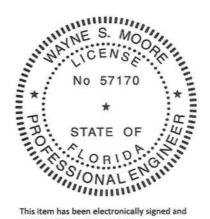
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY 20'-0" ENCLOS					
MOORE AND ASSOCIATES	DRAWN BY: LT	A Section of the	P.O. BOX 1287,					



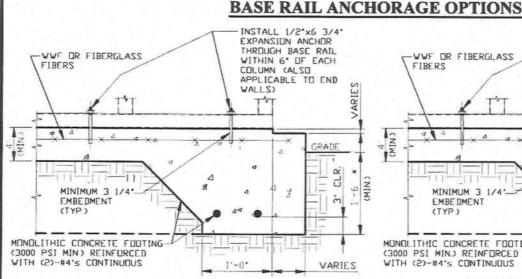


BRACE SECTION
SCALE: NTS



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MOORE AND ASSOCIATES	DRAWN BY: LT	STEEL BU	P.O. BOX 1287,				
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	The second secon	MOUNT AIRY, 20'-0" ENCLOS				
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	CLIENT: SESI	SHT. BA	DWG. ND SK-	-3	REVJ 9		



INSTALL 1/2'x6 3/4" EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN. (ALSO WWF DR FIBERGLASS APPLICABLE TO END WALLS? GRADE 4 CL 8 MINIMUM 3 1/4 2 EMBEDMENT (TYP) MONDLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS 1'-0" VARIE

(2)

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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

GENERAL NOTES

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

CONCRETE

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH DF 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 AGIS GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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

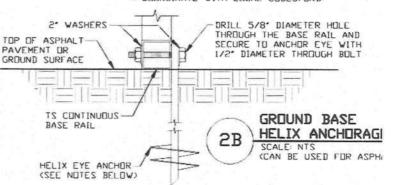
- I REINFORCEMENT IS BENT COLD
- 2 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
- 3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT

HELIX ANCHOR NOTES:

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

2A CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4*
* COORDINATE WITH LOCAL CODES/ORD





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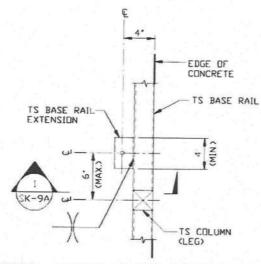
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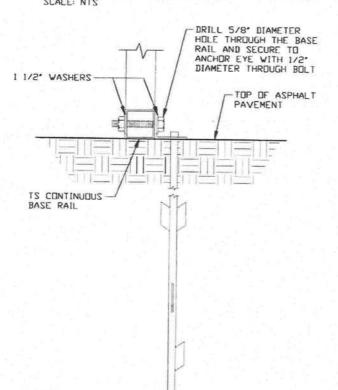
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CHECKED BY: PDH	1000 (CONTRACTOR)	MOUNT AIRY 20'-0" ENCLOS		. N. (2007) 273 and 12
PROJECT MGR: VSN	DATE: 12-11-20	SCALE: NTS	JUB 1825	ND: 18068\$/10 90\$/20019\$/20
CLIENT: SBSI	SHT. 9	DWG. NO SK	-3	REV. 9

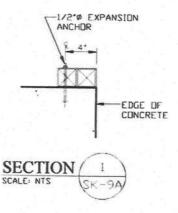
ADDITIONAL BASE RAIL ANCHORAGE OPTION

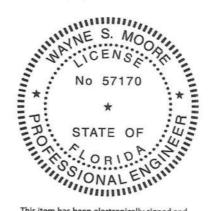


TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE





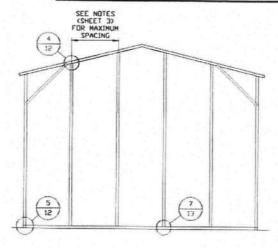




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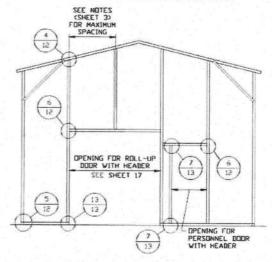
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTI							
MOORE AND ASSOCIATES	BRAWN BY: LT		P.O. BOX 1287,						

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



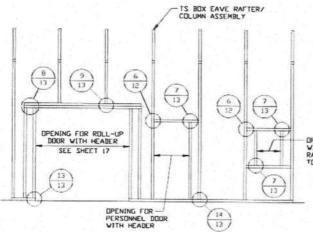
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

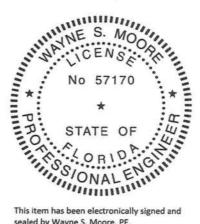
SCALE: NTS



OPENING FOR WINDOW WITH HEADER AND WINDOW RAIL (ALSO APPLICABLE TO END WALLS)

TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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ENGINEERING AN	ID CONSULTING, INC.

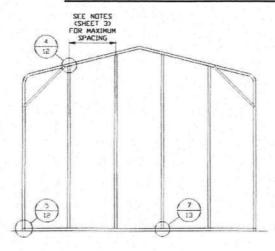
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-	PROJECT NGR: VSN	DATE: 12-11-20	SCALE: NTS	JUD NO: 180685/181:			
	CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
	BRAVN BY: LT	STEEL BU	P.O. BOX	1287,			

SHT. 10

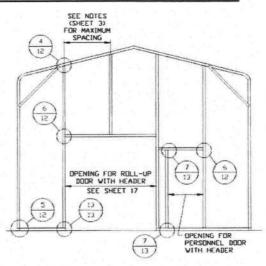
CLIENT: SBSI

BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



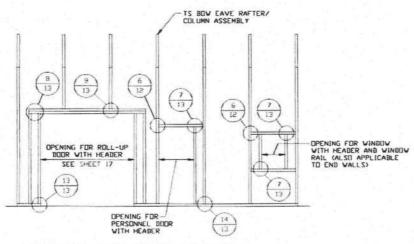
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



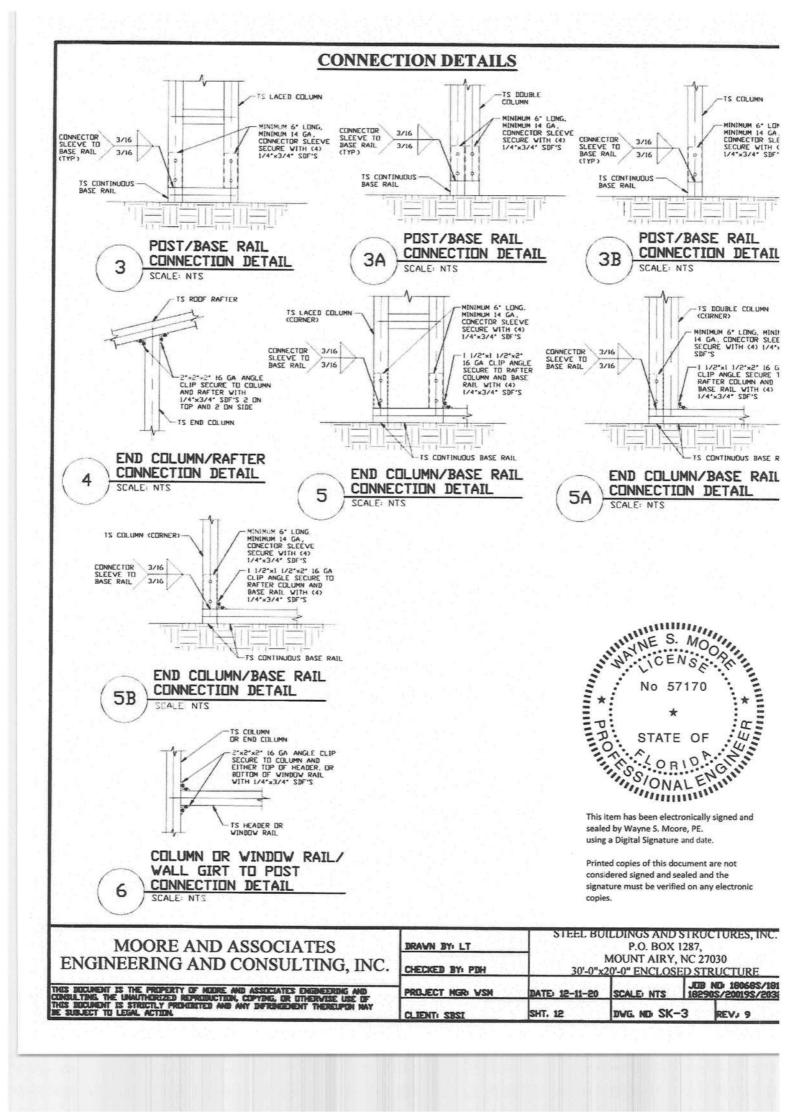
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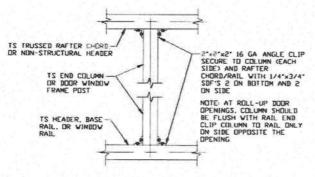
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ENGI	NEERING AND CONSULTING, INC.	

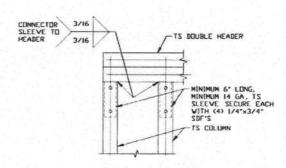
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	CHECKED BY: PBH			INT AIRY, NC 27030 ENCLOSED STRUCTURE				
	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JUB 1829	ND: 180685/18 05/200195/203			
	CLIENT: SBSI	SHT. 11	DVG. ND SK	-3	REVJ 9			



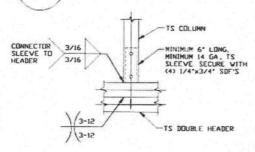
CONNECTION DETAILS





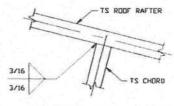
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

8 DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS



ATTACH COLLAR TIE
TID RODE RAFTER VITH
(4) 1/4'x3/4'
SDF'S CHACH END)

COLLAR TIE

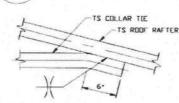


9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

RAFTER TO CHORD CONNECTION DETAIL

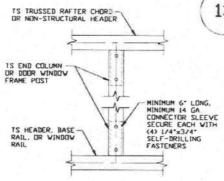
SCALE NTS



MINIMUM 6' LONG MINIMUM 14 GA. CONECTOR SLEEVE SECURE VITH (4) 1/4*x3/4* SDF'S

12 COLLAR TIE CONNECTION DETAIL

13 COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

14

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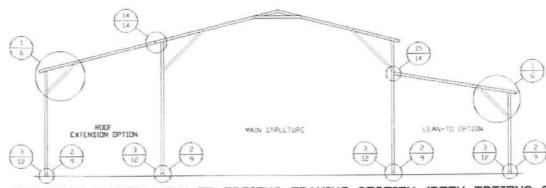
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PROJECT NGR: VSN	DATE: 12-11-20	SCALE: NTS	J09 1829	ND 18068\$/18 205/201005/20		
CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
DRAWN BY: LT	P.O. BOX 1287,					

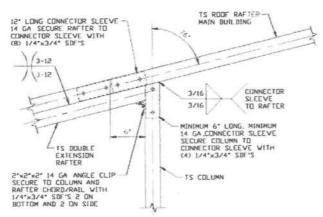
copies.

BOX EAVE RAFTER LEAN-TO OPTIONS



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

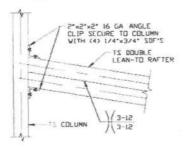
SCALE: NTS MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0'
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0'
MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0'
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



12" LONG CONNECTOR SLEEVE 14 GA SECURE RAFTER TO CONNECTOR SLEEVE WITH (8) 1/4"x3/4" SDF'S CONNECTOR SLEEVE TO RAFTER 3/16 MINIMUM 6" LONG, MINIMUM 14 GA CONNECTOR SLEEVE SCURE COLLUMN TO CONNECTOR SLEEVE WITH (4) 1/4"x3/4"SDF'S TS EXTENSION RAFTER NIPPLE TO RAFTER (TYP) 3/16 IS COLUMN 3/16

> SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS ≤ 12'-0" SCALE: NTS

SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 12'-0" < T□ < 16'-0" 14



S.*S.*S. 16 CV ANOTE CTLD SECRE 10 CDT NW S.*S.*S. 16 LV ANOTE S.*S.*S.*S. 19 CV ANOTE TS COLUMN

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

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

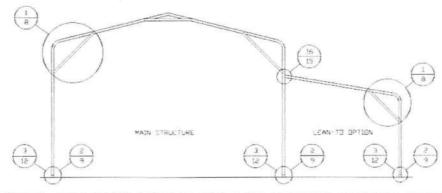
15

LEAN-TO RAFTER

15A SCALE: NTS This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

		T STEEL BU	ILDINGS AND	STRUC	CTURES, IN	
MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX 1287,			
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTU				
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CONSILTING THE IDEAL ACTION	CLICATE CRSI	SHT. 14	DWG. NO SK-	-3	REV. 9	

BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

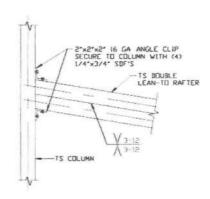
SCALE: NTS

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

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

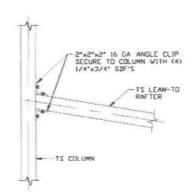
MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0"

FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



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

16



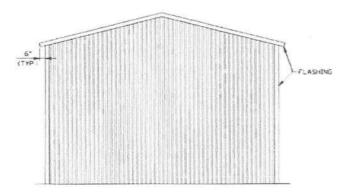
LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS < 12'-0'

16A

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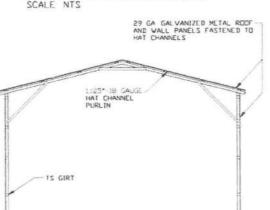
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



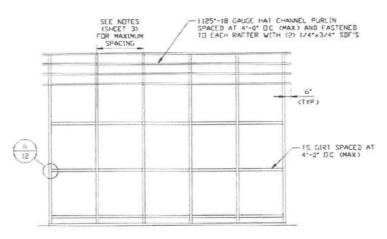
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE NTS



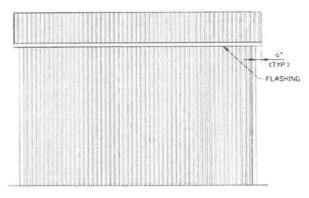
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



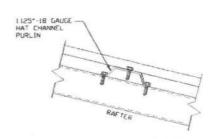
TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE NTS



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DVG. NO SK-3

REV. 9

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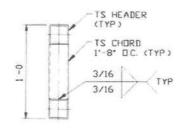
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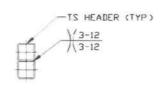
-	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JUB ND 18068S/1 18290S/20019S/20			
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
	DRAWN BY: LT		STRUCTURES, INC 1287,				

SHT. 16

CLIENT: SBSI

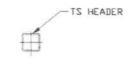
SIDE WALL HEADER OPTIONS





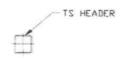
LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0' < LENGTH < 20'-0'

DOUBLE HEADER DETAIL FOR DOOR OPENINGS 7'-0" < LENGTH < 12'-0" SCALE: NTS



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH & 7'-0'

END WALL HEADER OPTIONS

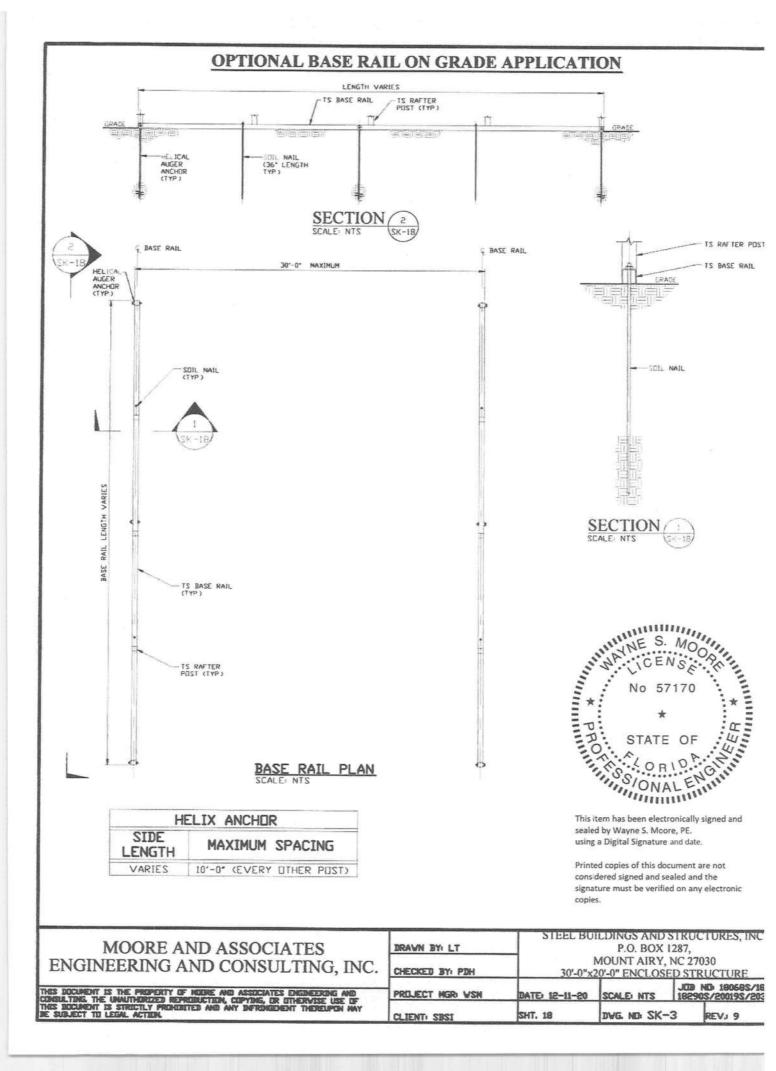


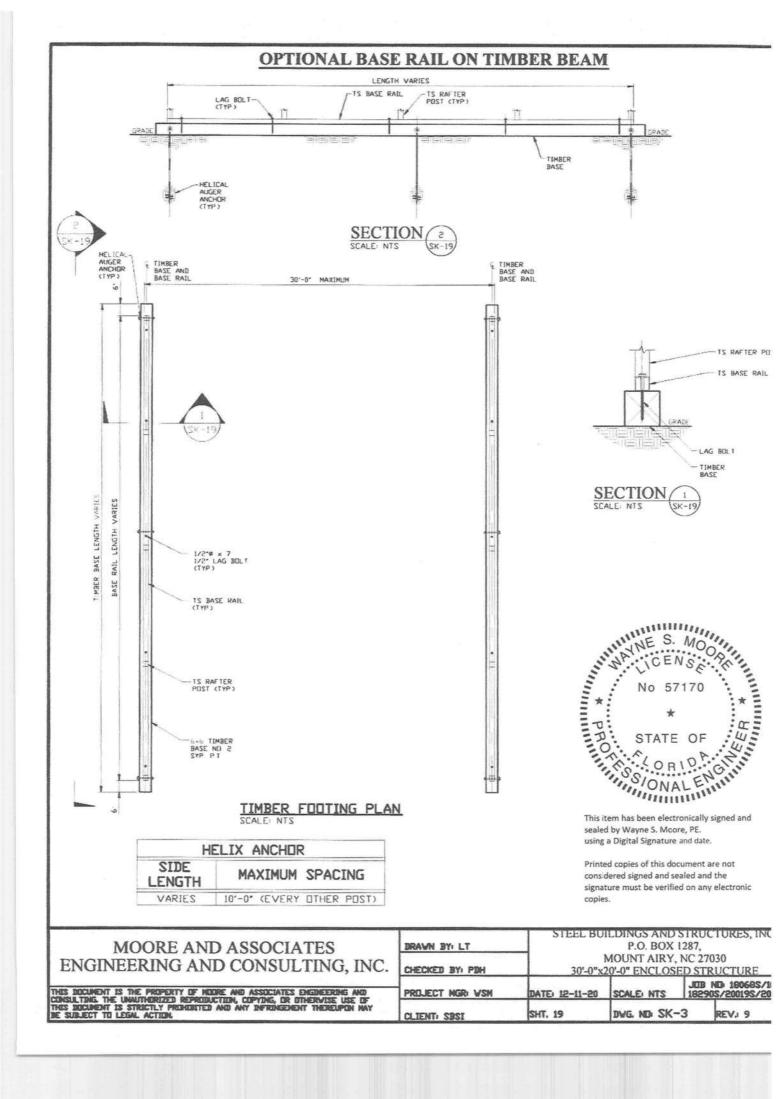
SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH & 12'-0'

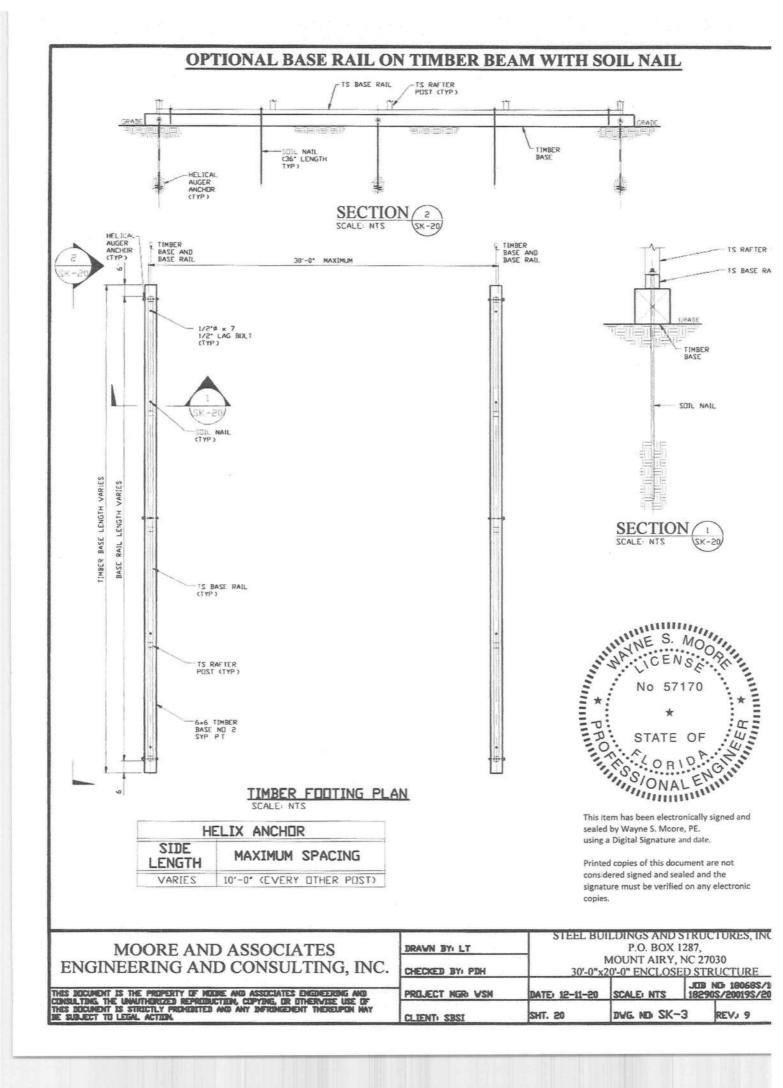


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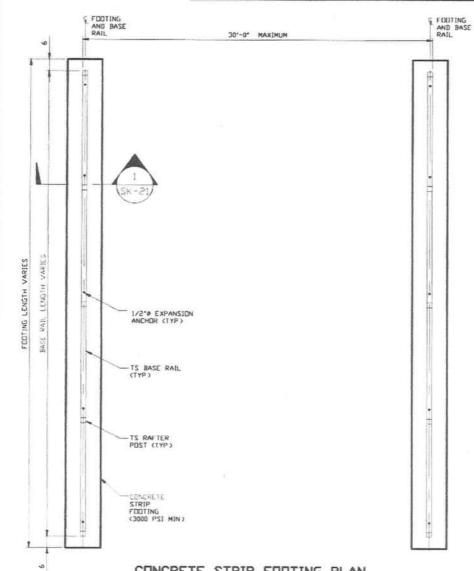
MOORE AND ASSOCIATES	DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,				
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
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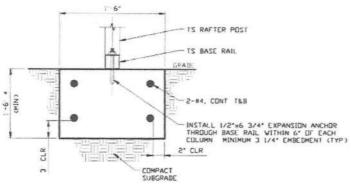




OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN





* COORDINATE WITH LOCAL CODES/ORD



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	CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED STRUC				
_	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JUB NO 180685/16 182905/200195/20		
	CLIENTI SEST	SHT. 21	DVG. ND SK-	-3	REV. 9	