

# STRUCTURAL DESIGN ENCLOSED BUILDING

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

14 February 2020 Revision 8 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S

Prepared for:

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

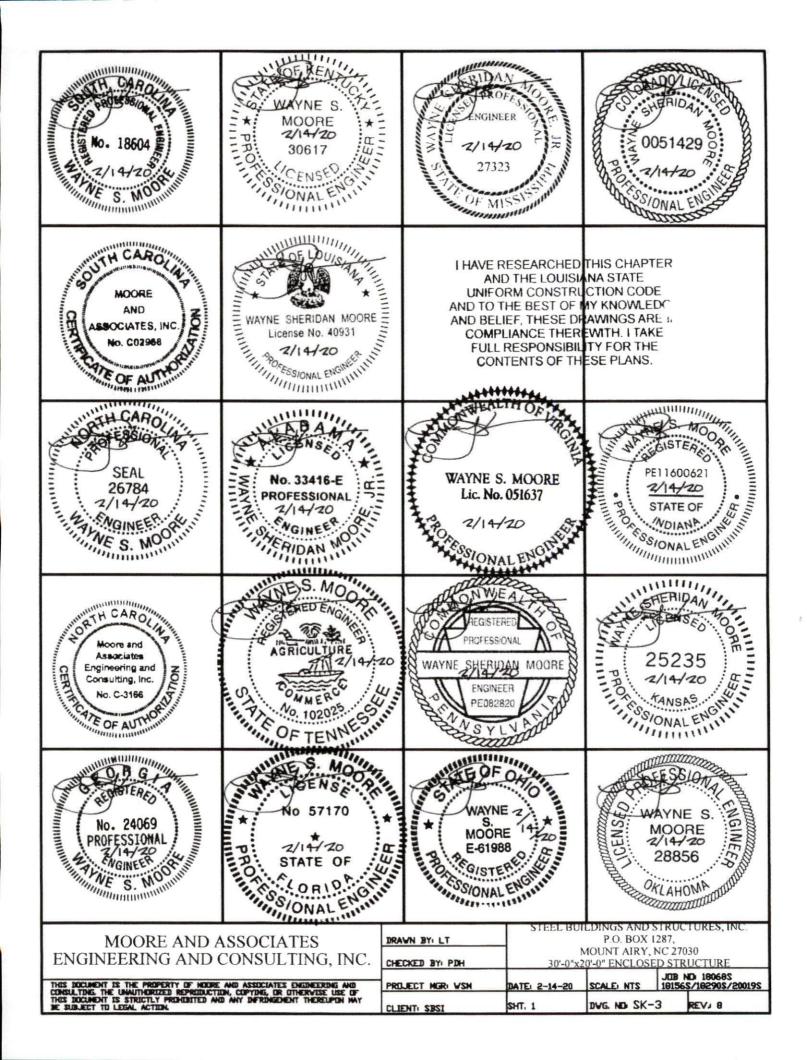
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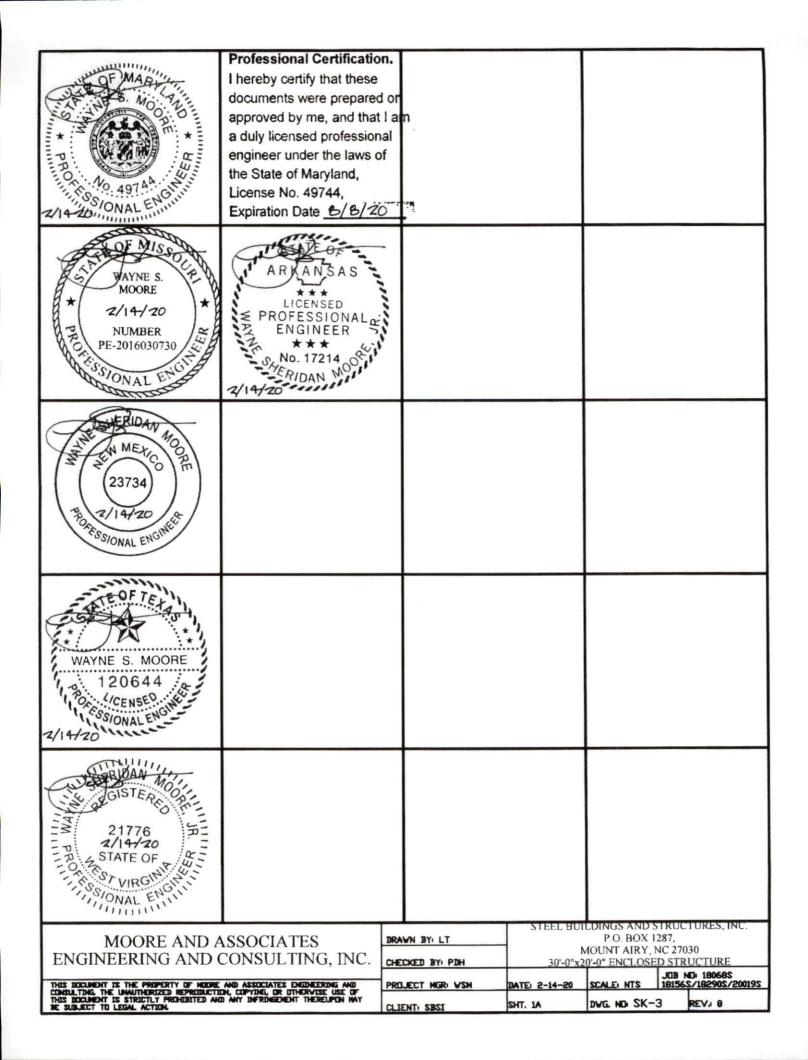
Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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







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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
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### INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT ENCLUSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCOMPANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 NORTH CARDLINA 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

= 1.5 PSF

B) LIVE LOAD

= 12 PSF

C) GROUND SNOW LOAD

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

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

- 4 3-SECOND GUST ULTIMATE WIND SPEED (V<sub>ULT</sub>) = 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.
- 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 NUTED LITHERWISE)
- 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 FURCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:

SUIL SITE CLASS = D

RISK CATEGORY I

 $I_E = 10$ 

R= 325 S e 2039 9

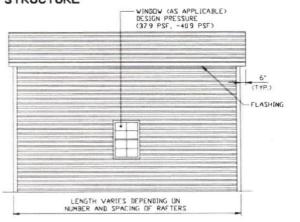
V= CSW

 $S_{Di} = 1258 g$ 

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

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# BOX EAVE FRAME RAFTER STRUCTURE PERSONNEL DIDOR (AS APPLICABLE) DESIGN PRESSURE (339 PSF. -3715 PSF) FLASHING BOX EAVE FRAME RAFTER STRUCTURE PERSONNEL DIDOR (AS APPLICABLE) DESIGN PRESSURE (362 PSF. -394 PSF) LEN NUMBER 30'-0" MAXIMUM RAFTER SPAN (V)



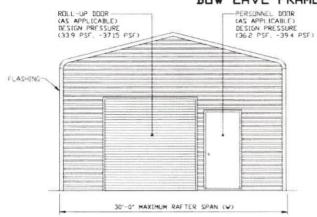
### TYPICAL END ELEVATION

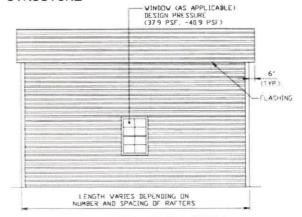
SCALE: NTS

### TYPICAL SIDE ELEVATION

SCALE: NTS

### BOW EAVE FRAME RAFTER STRUCTURE



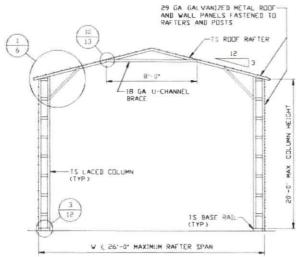


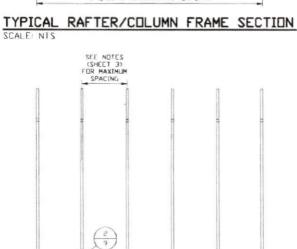
### TYPICAL END ELEVATION

SCALE: NTS

### TYPICAL SIDE ELEVATION

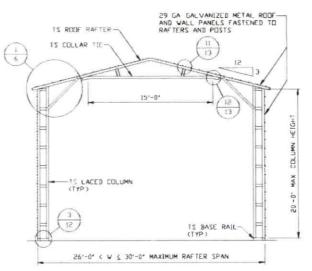
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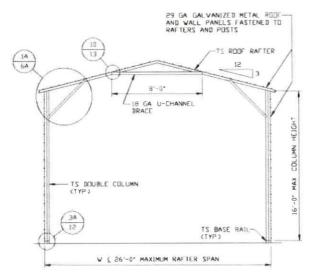
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

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MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX		NC.



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

TS ROOF RAFTER

TS COLLAR TIE

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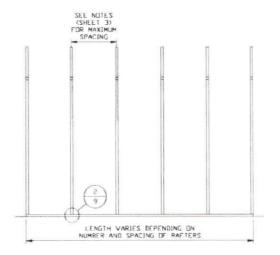
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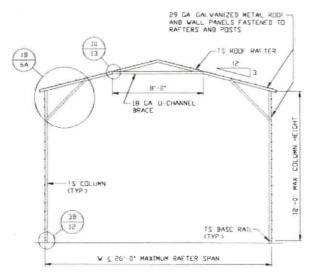
15'-0'

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

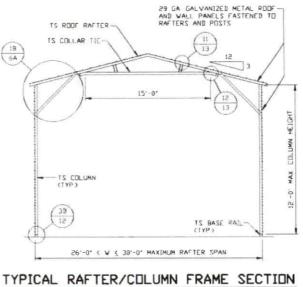


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

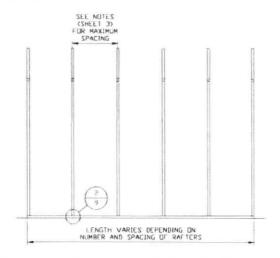
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# TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

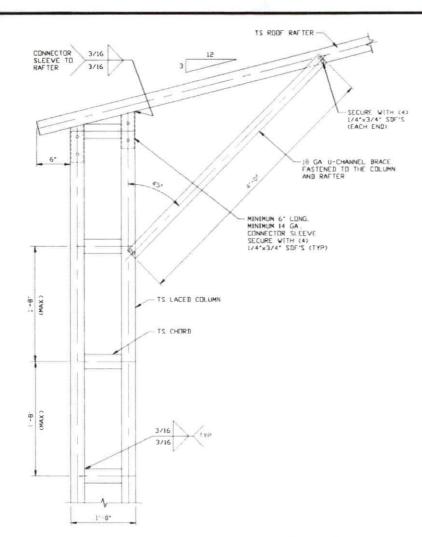


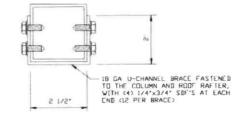
# SCALE: NTS



### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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# BRACE SECTION SCALE: NTS

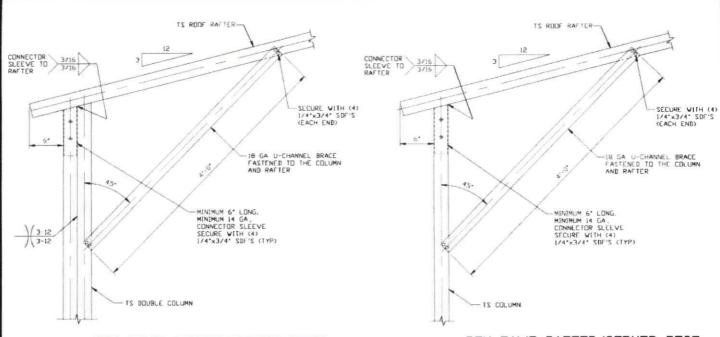
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0'

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1	CHECKED BY: PIDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRU						
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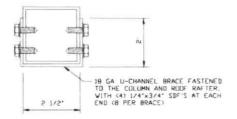


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 12'-0' < TO < 16'-0'

SCALE: NTS

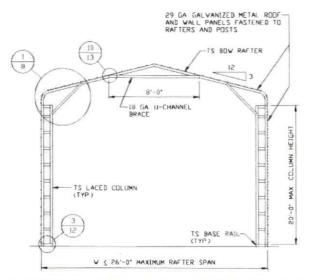
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

1B FOR HEIGHTS & 12'-0'

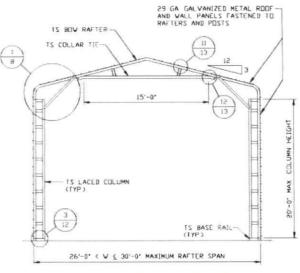


BRACE SECTION

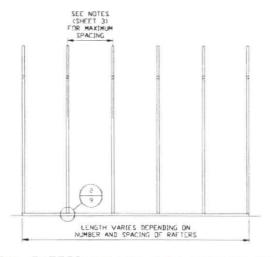
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## TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

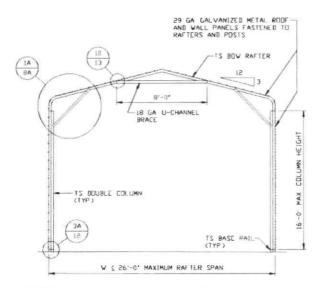


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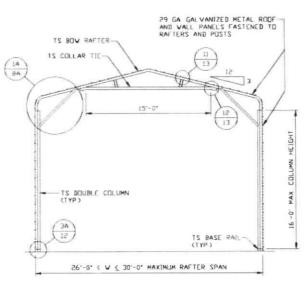


### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

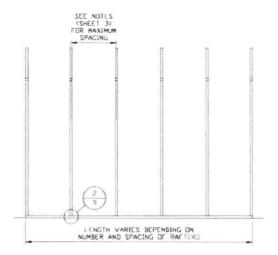
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# TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

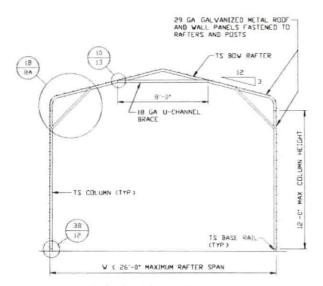


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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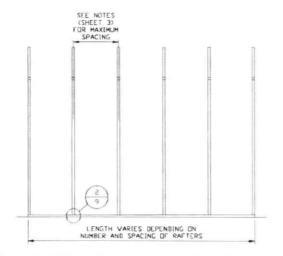
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# TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

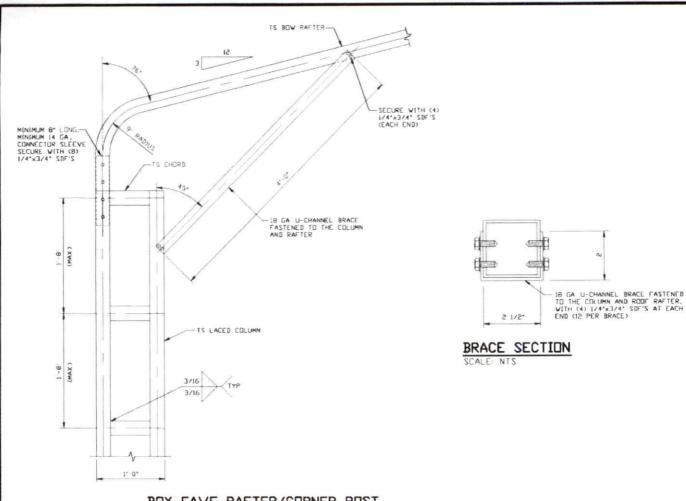
29 GA GALVANIZED METAL ROOF-AND VALL PANELS FASTENED TO RAFTERS AND POSTS TS BOY RAFTER 11 TS COLLAR TIE-(1B) 8A COLUMN TS COLUMN (TYP) .0-TS BASE RAIL 26'-0' C W & 30'-0" MAXIMUM RAFTER SPAN

### TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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

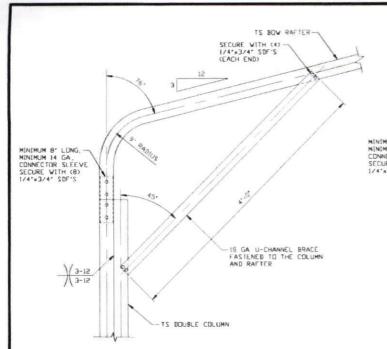


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

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

SCALE NTS

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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY 20'-0" ENCLOS		
MOORE AND ASSOCIATES	DRAWN BY: LT	STEEL BU	ILDINGS AND P.O. BOX		TURES, INC.



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

1A FOR HEIGHTS 12'-0' < TO \( \) 16'-0'

TS BOV RAFTER

SECURE VITH (4)

1/4'x3/4' SDF'S

(EACH END)

12

MINIMUM 8' LONG,
MINIMUM 14 GA.
CONNECTIR SLEEVE
SECURE VITH (8)

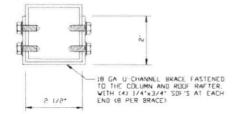
1/4'x3/4' SDF'S

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

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS \( \) 12'-0'

SCALE NTS

1B

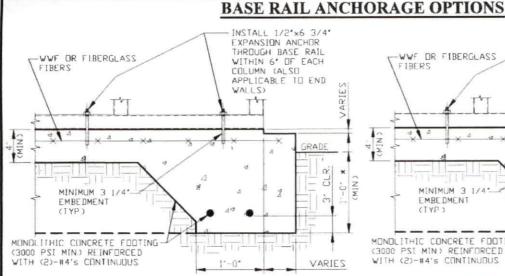


BRACE SECTION

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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PROJECT MGR: VSM	DATE: 2-14-20	SCALE: NTS	10156	\$/18290\$/20019\$	
CLIENT) SRST	SHT. BA	DVG. NO SK	-3	REVJ 8	



2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

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

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

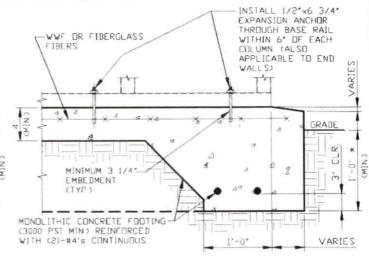
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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

- 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

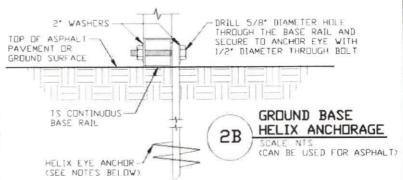
### HELIX ANCHOR NOTES:

- 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
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- FOR MEDIUM DENSE CDARSE 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
- 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

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



MOORE AND ASSOCIATES	DRAWN BY: LT		LDINGS AND S P.O. BOX I MOUNT AIRY, I	
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	0'-0" ENCLOSE	D STRUCTURE JUB NO 18068S
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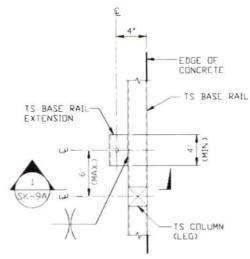
### ADDITIONAL BASE RAIL ANCHORAGE OPTION

-1/2° EXPANSION ANCHOR

SECTION

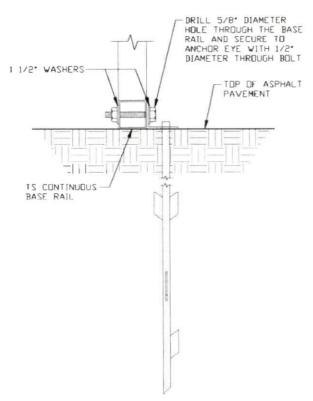
SCALE: NTS

-EDGE OF CONCRETE



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

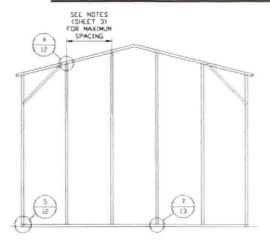
SCALE: NTS



2C ASPHALT BASE ANCHURAGE

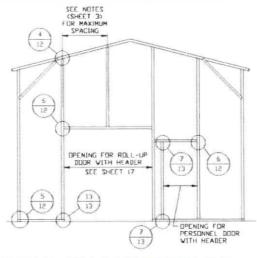
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MOORE AND ASSOCIATES	DRAWN BY: LT	STEEL BUI	P.O. BOX		TURES, INC.

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



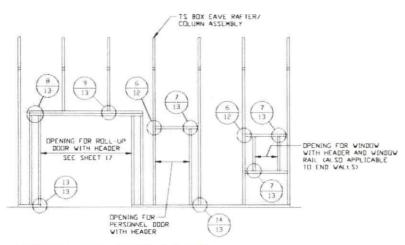
# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

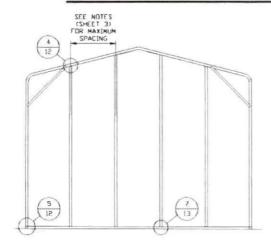
SCALE: NTS



# TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

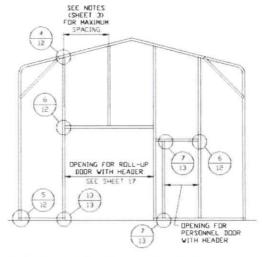
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		NC 27030 D STRUCTURE	
MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX 1	,

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



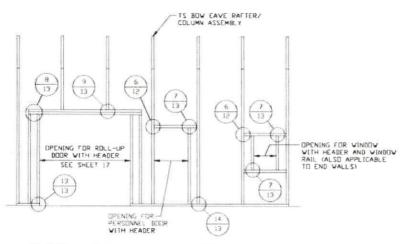
# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

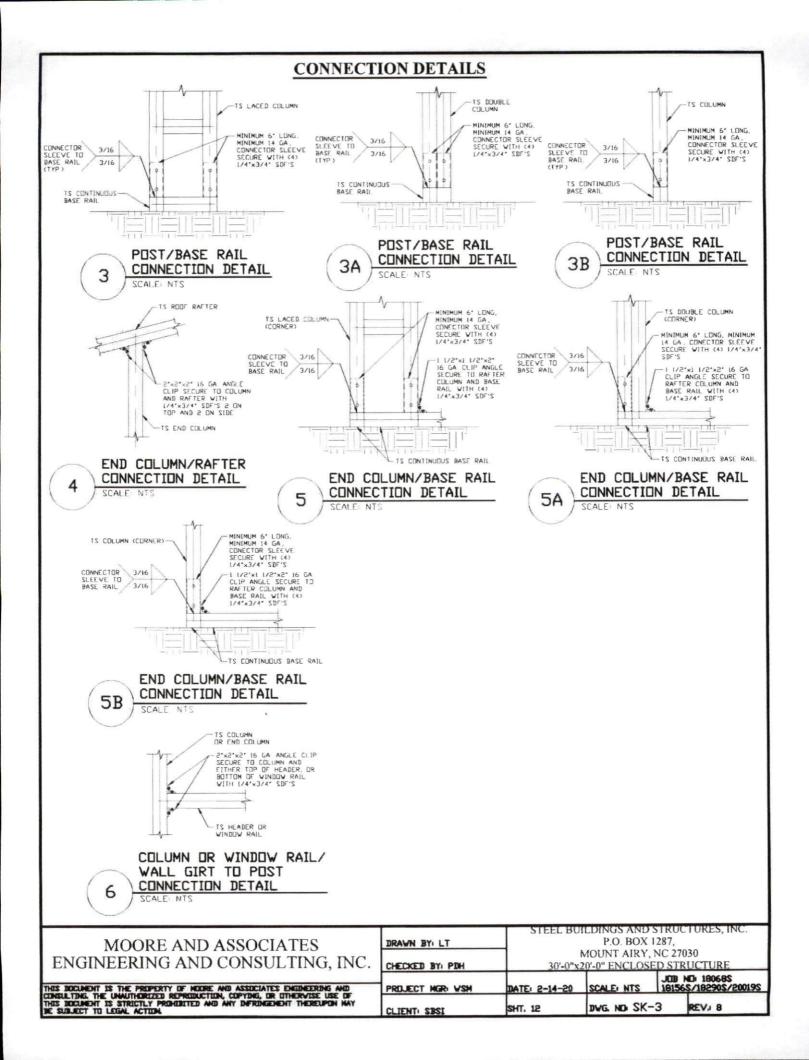


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

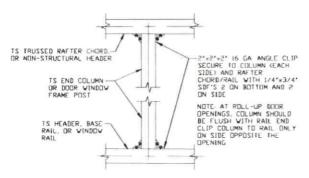
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

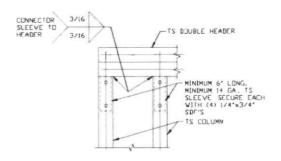
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	DRAWN BY: LT		P.O. BOX	1287,				
	CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
	PROJECT HGR: VSH	DATE: 2-14-20	SCALE: NTS		ND 180685 52/182905/200195			
	CLIENT: SBSI	SHT. 11	DWG. NO SK-	-3	REV. B			



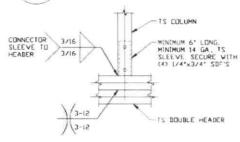


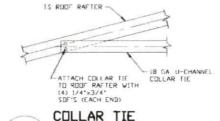


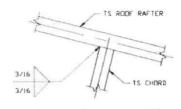


7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

8 DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS





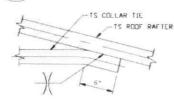


COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

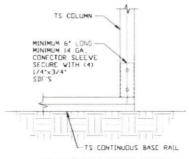
10 CONNECTION DETAIL

RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS

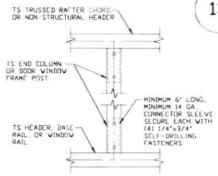


9



COLLAR TIE
CONNECTION DETAIL

13 COLUMN/BASE RAIL
CONNECTION DETAIL



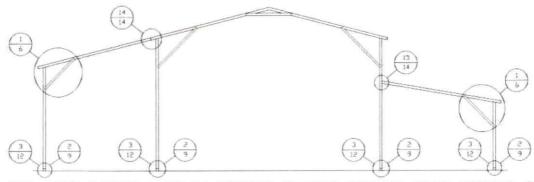
COLUMN TO HEADER
OR BASE RAIL
CONNECTION DETAIL

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PROJECT MGR	HZW	DATE: 2-14-20	SCALE: NTS		ND: 180685 5/182905/200195
CHECKED BY: P	1DH		MOUNT AIRY 20'-0" ENCLOS		
DRAWN BY: LT			P.O. BOX	1287,	

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



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

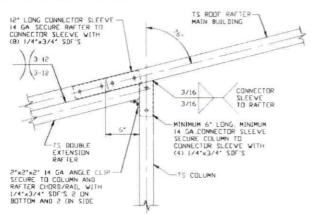
SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER) ROUF EXTENSION LEAN-TO IS 12'-0'

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

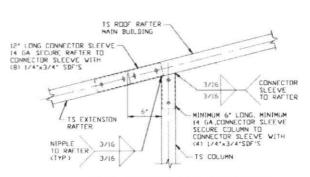
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT

AND TUBING SPECIFICATIONS

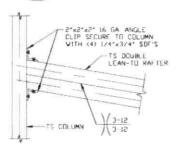


SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR RAFTER

SPANS 12'-0" < TO \( \) 16'-0"



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



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

15

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

TS LEAN-TO
RAFTER

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

(15A

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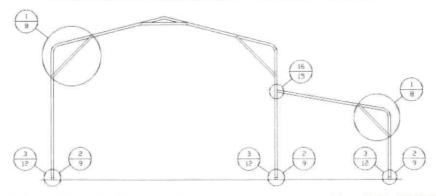
STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

CHECKED BY PDH 30'-0"x20'-0" ENCLOSED STRUCTURE

PROJECT MGR VSM DATE: 2-14-20 SCALE: NTS 18156\$2/18290\$2/20019\$

CLIENT: SBSI SHT. 14 DVG. ND SK-3 REV. 8

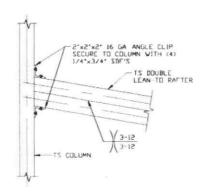
### **BOW EAVE RAFTER LEAN-TO OPTIONS**



### TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER) ROOF EXTENSION LEAN-TO IS 12'-0'
MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0'.
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



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

16 SCALE: NTS

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

TS LEAN-TD RAFTER

LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS \( \) 12'-0'

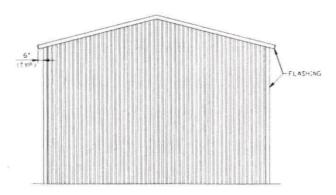
LOA SCALE NI

MOORE AND ASSOCIATES	DRAWN BY: LT
ENGINEERING AND CONSULTING, INC.	CHECKED BY PD

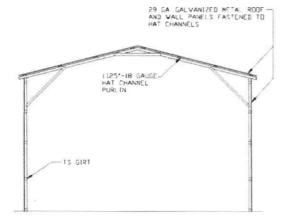
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CLIENT: SBSI	SHT. 15	DVG. NO SK		REV. 8		
 PROJECT HGR: VSM	DATE: 2-14-20	SCALE: NTS	JOB	283081 IDM 281005/200195		
CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
DRAWN BY: LT	P.O. BOX 1287,					

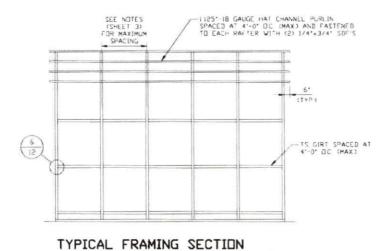
### BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



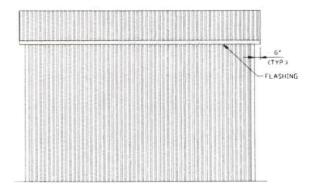
### TYPICAL END ELEVATION VERTICAL ROOF/SIDING



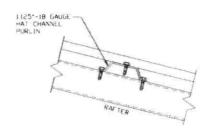
### TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



VERTICAL ROOF/SIDING OPTION



### TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING



### PANEL ATTACHMENT

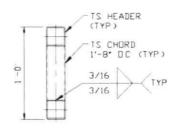
(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS

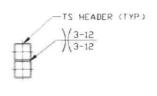
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	T	STEEL BUILDINGS AND STRUCTURES, INC.					

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ED STRUCTURE JUB ND 18068S 18156S/18290S/20019S DVG. NO SK-3 SHT. 16 REV: B CLIENT: SBSI

### SIDE WALL HEADER OPTIONS

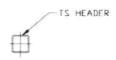




LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0' < LENGTH \( 20'-0' \)

SCALE: NTS

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



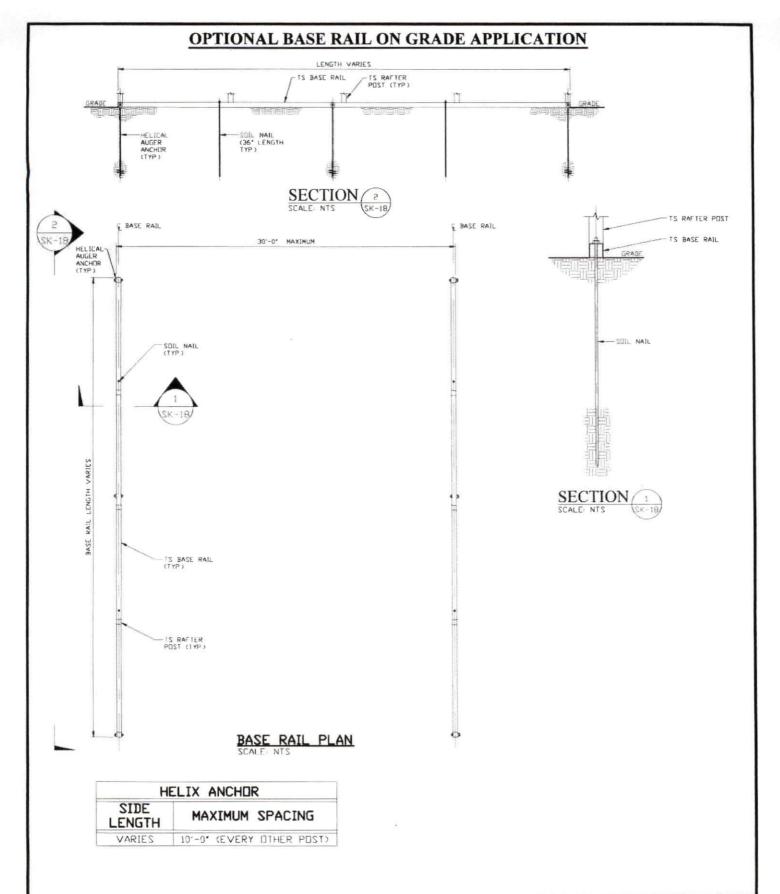
SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH & 7'-0'

### END WALL HEADER OPTIONS

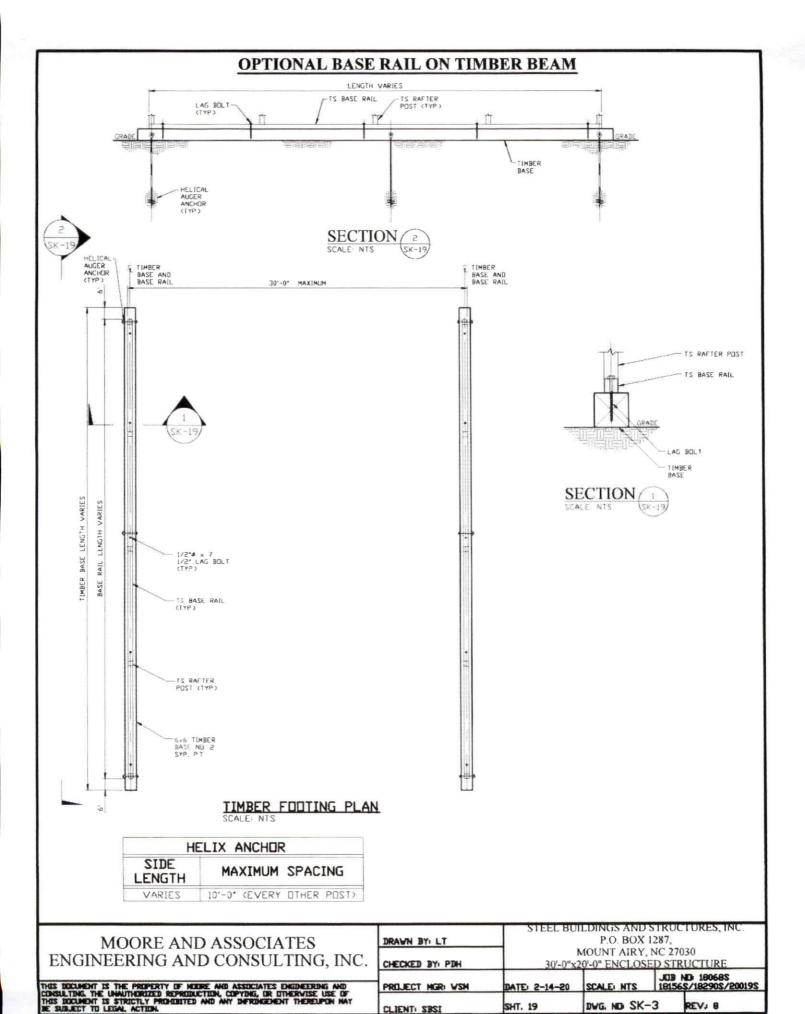


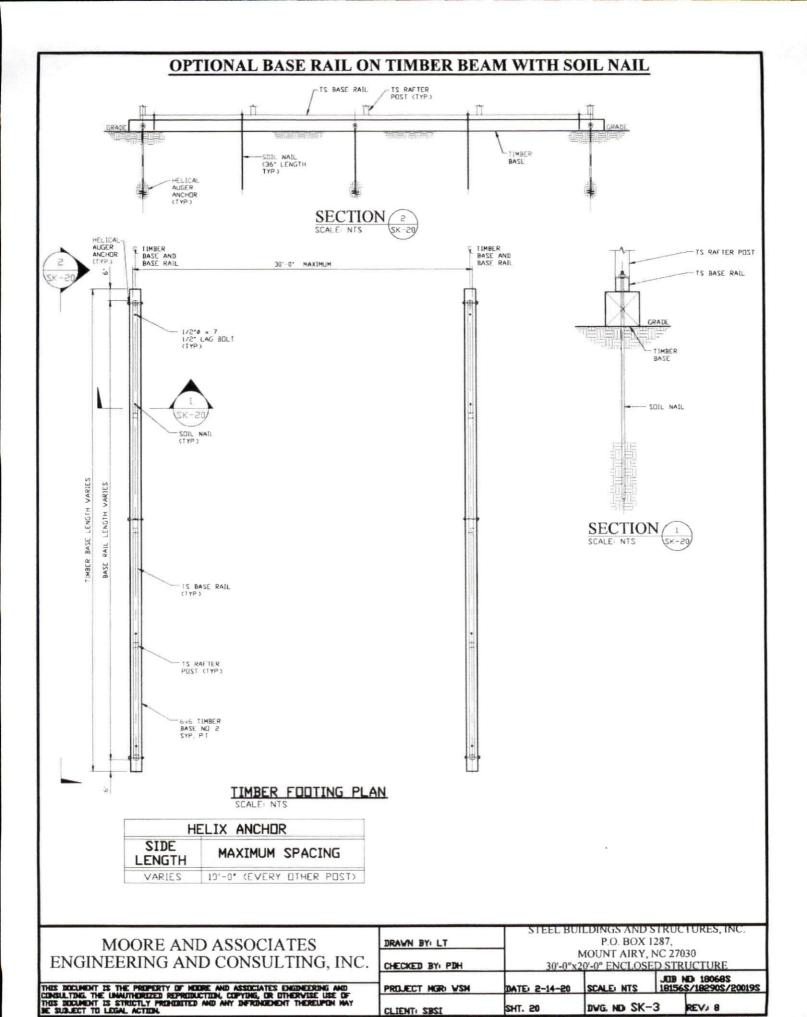
SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH \( \frac{12'-0'}{\text{SCALE: NTS}} \)

	STEEL BUILDINGS AND STRUCTURE					
MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	And the Control of th				
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	1	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
MOORE AND ASSOCIATES	DRAWN BY: LT	P.O. BOX 1287,				





# OPTIONAL CONCRETE STRIP FOOTING FDOTING AND BASE RAIL FOOTING AND BASE RAIL 30'-0' MAX[MUM BASE RAIL LENGTH VARIES FODTING LENGTH VARIES TS BASE RAIL CONCRETE STRIP FOOTING (3000 PSI MIN) CONCRETE STRIP FOOTING PLAN SCALE: NTS - TS RAFTER PUST TS BASE RAIL 2-84, CONT TAB INSTALL 1/2'x6 3/4' EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' DF EACH COLUMN MINIMUM 3 1/4' EMBEDMENT (TYP) 5. CFB COMPACT SUBGRADE SECTION ( SCALE: NTS \* COORDINATE WITH LOCAL CODES/ORD STEEL BUILDINGS AND STRUCTURES IN

THIS EDUCATION IS STRUCTLY PROMISED AND ANY DIFFERENCEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 21	DWG. ND SK-3		REVJ 8	
IS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING ASSOCIATES ENGINEERING AND ASSOCIATES ENGINEERING AND ASSOCIATES ENGINEERING ENGINEERI	PROJECT MGR: VSH	DATE: 2-14-20	SCALE: NTS		201005\2005 201005\2005	
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