

### STRUCTURAL DESIGN

### **ENCLOSED BUILDING**

### MAXIMUM 40'-0" WIDE X 20'-0" EAVE HEIGHT-BOX EAVE FRAME

17 April 2020 Revision 9 M&A Project No. 15130S/15207S/15209S/16155S/16207S/17155S/17200S/18068S/18290S/20019S

### Prepared for:

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

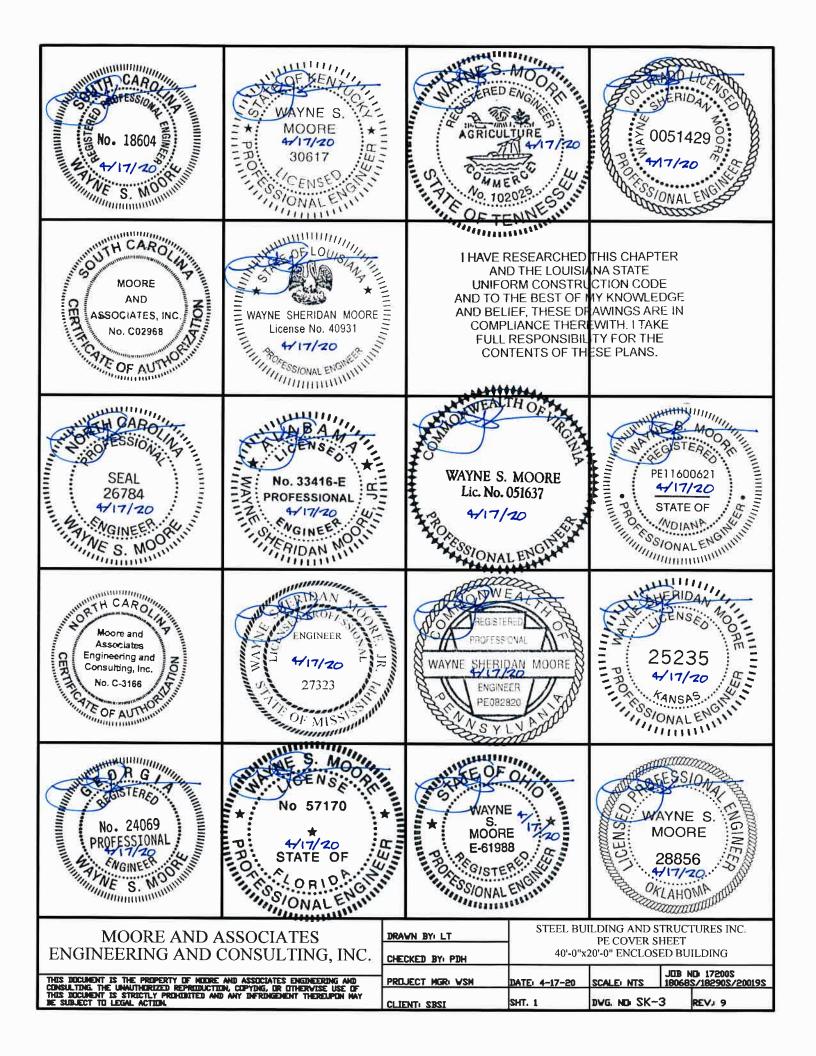
### Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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





ANTIZO	Professional Certification I hereby certify that these documents were prepared approved by me, and that I a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date 6/6/20	or , am al				
WAYNE S. MOORE  * 4/17/20  NUMBER PE-2016030730  SONAL ENGINEER	STATE OF  LICENSED  PROFESSIONAL  ENGINEER  S, No. 17214  A17/20  A17/20					
23734)  REPRIDANT MODE OF THE STATE OF THE S	Q					
WAYNE S. MOORE  120644  OK. //CENSEO. ME  4/17/20						
21776 AIT/20 STATE OF WASSINGS ON AL ENGINEERING AND AUGUST OF THE PROPERTY						
MOORE AND A ENGINEERING AND (	ONCHI TING ING	AWN BY: LT ECKED BY: PDH		PE COVER S	TRUCTURES I HEET ED BUILDING	
THIS DOCUMENT IS THE PROPERTY OF MODRE CONSULTING. THE UNAUTHORIZED REPRODUCTION THIS STRUCTLY PROHIBITED AND BE SUBJECT TO LEGAL ACTION.		DJECT MGR: VSM	DATE: 4-17-20 SHT. 1A	SCALE: NTS DWG, ND: SK-	JUB ND 17200 180685/182905	2 200192

### DRAWING INDEX

	DICH WING INDEX
SHEET 1	PE SEAL COVER SHEET (1 OF 2)
SHEET 1A	PE SEAL COVER SHEET (2 OF 2)
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 4	TYPICAL END ELEVATION
SHEET 4A	TYPICAL SIDE ELEVATION
SHEET 5	TYPICAL RAFTER/POST FRAME AND SIDE FRAMING SECTIONS (SINGLE COLUMN)
SHEET 5A	TYPICAL RAFTER/POST FRAME AND SIDE FRAMING SECTIONS (DOUBLE COLUMN)
SHEET 5B	TYPICAL RAFTER/POST FRAME AND SIDE FRAMING SECTIONS (LACED COLUMN)
SHEET 6	TYPICAL RAFTER/POST CONNECTION DETAILS (SINGLE COLUMN)
SHEET 6A	TYPICAL RAFTER/POST CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 6B	TYPICAL RAFTER/POST CONNECTION DETAILS (LACED COLUMN)
SHEET 7	BASE RAIL ANCHORAGE
SHEET 7A	ADDITIONAL BASE RAIL ANCHORAGE OPTION
SHEET 8	TYPICAL ENDWALL FRAMING SECTIONS
SHEET 8A	TYPICAL ENDWALL OPENING FRAMING SECTIONS
SHEET 8B	TYPICAL SIDEWALL OPENING FRAMING SECTIONS
SHEET 9	CONNECTION DETAILS
SHEET 10	CONNECTION DETAILS
SHEET 11	LEAN-TO OPTIONS
SHEET 11A	LEAN-TO OPTIONS
SHEET 11B	LEAN-TO OPTIONS
SHEET 11C	LEAN-TO OPTIONS
SHEET 12	VERTICAL ROOF/SIDING OPTION END ELEVATION
SHEET 12A	VERTICAL ROOF/SIDING OPTION SIDE ELEVATION
SHEET 13	VERTICAL ROOF/SIDING OPTION SECTION
SHEET 13A	VERTICAL ROOF/SIDING OPTION SIDE FRAMING
SHEET 14	OPTIONAL BASE RAIL ON GRADE APPLICATION
SHEET 15	OPTIONAL BASE RAIL ON TIMBER BEAM
SHEET 16	OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL
SHEET 17	OPTIONAL CONCRETE STRIP FOOTING
SHEET 18	SIDEWALL AND ENDWALL HEADER OPTIONS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, 1 220'-0" ENCLOS 	ED BU	
THE DECIMENT IS THE DECECTE OF MEDIC AND ACCOUNTED EMPRESSIVE AND	7	TATE 4 47 00	COAL E. NITO		201005\200581\2
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROMISETED AND ANY INFRINGEMENT THEREUPIN MAY	PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS	100007	3/105302/500132

### INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR A MAXIMUM 40'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH 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
- = 1,5 PSF
- B) ROOF LIVE LOAD
- = 12 PSF = 35 PSF
- C> GROUND SNOW LOAD
- NOTE: (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
- 4 3-SECOND GUST ULTIMATE WIND SPEED = 105 TO 140 MPH (NOMINAL WIND SPEED = 81 TO 108 MPH)
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
- 7 LOW HAZARD RISK CATEGORY I (WIND)
- 8 WIND EXPOSURE CATEGORY B
- 9, SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" 14 GAUGE STEEL TUBE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS (INTERIOR OR END) = 8 INCHES
- 11 FASTENERS CONSIST OF 1/4'x3/4' SELF-DRILLING FASTENERS WITH CONTROL SEAL WASHER SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF L4' (3:12 PITCH). SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF 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 USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I/II/III

R= 3.25

2039 g

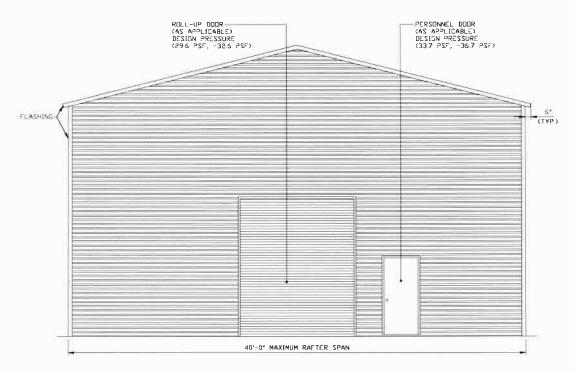
 $S_{D1} = 1.258 g$  $I_E = 10$ 

V= C<sub>2</sub>W

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

MOORE AND ASSOCIATES	DRAWN BY: LT		JILDING AND P.O. BOX MOUNT AIRY.	1287,	
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		x20'-0" ENCLO		
THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND	PREJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		ND: 17200S 3S/18290S/20019S
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THOS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 3	DVG. ND: SK-	-3	REV. 9

### BOX EAVE FRAME RAFTER ENCLOSED BUILDING



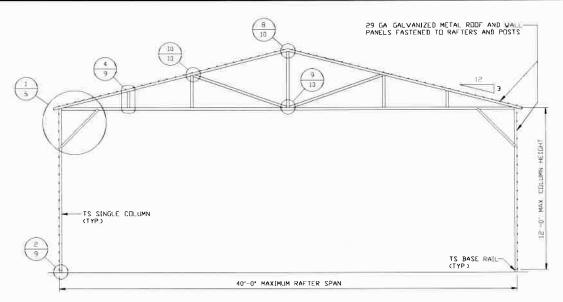
# TYPICAL END ELEVATION-HORIZONTAL ROOF SCALE NTS

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGIBLENT THEREUPON MAY	PREJECT MGR: VSM	DATE: 4-17-20 SHT, 4	SCALE: NTS	18068	ID: 17200S S/18290S/20019S REV.1 9		
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, 20'-0" ENCLOS	SED BU	ILDING		
MOORE AND ASSOCIATES	ORE AND ASSOCIATES DRAWN BY: LT		STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287,				

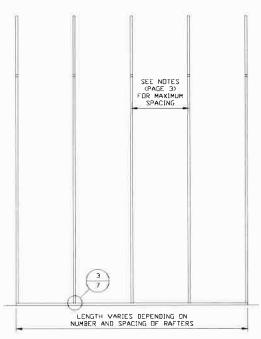
# BOX EAVE FRAME RAFTER ENCLOSED BUILDING VINDUY (AS APPLICABLE) DESIGN PRESSURE (33.3 PSr. - 38.2 PSr) (37.4 PSr. - 38.2 PSr) FLASHING

## TYPICAL SIDE ELEVATION-HORIZONTAL ROOF SCALE: NTS

ENGINEERING AND CONSULTING, INC.  THUS DUCLHENT IS THE PROPERTY OF MODINE AND ASSOCIATES ENGINEERING AND	CHECKED BY: PDH	40'-0"x	40UNT AIRY, 1 20'-0" ENCLOS	ED BU	
CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRUCTLY PROMOBILED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PRELIECT MGR: VSM CLIENT: SBSI		DVG. ND: SK-	•	REV. 9

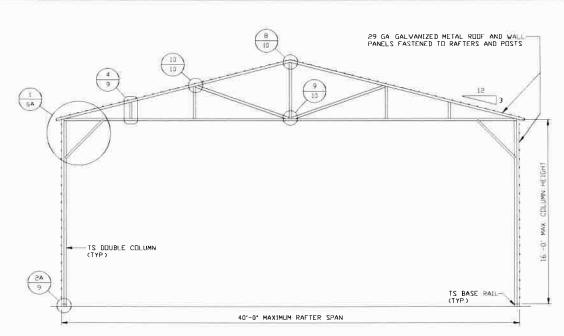


### TYPICAL RAFTER/POST FRAME SECTION (H < 12'-0') SCALE: NTS

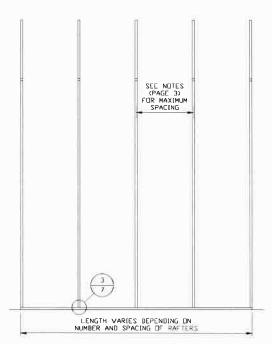


# TYPICAL RAFTER/POST SIDE FRAMING SECTION SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING			
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGR: VSM	DATE: 4-17-20 SHT. 5	SCALE: NTS DWG. ND: SK-	18068	Di 17200\$ \$/18290\$/20019\$ REV.i 9



TYPICAL RAFTER/POST FRAME SECTION (12'-0' < H < 16'-0')



TYPICAL RAFTER/POST SIDE FRAMING SECTION SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS	JOB ND: 17200S 18068S/18290S/200			
CHECKED BY: PDH	MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING					
DRAVN BY: LT	STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287,					

SHT. 5A

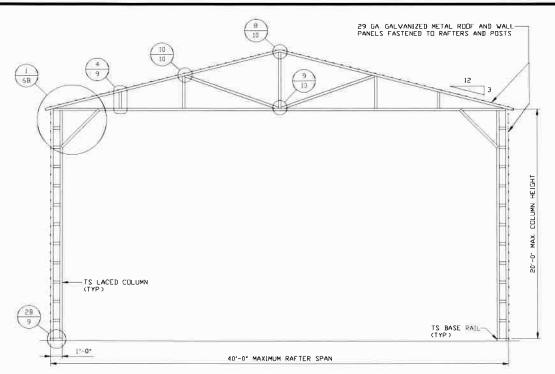
CLIENT: SBSI

JOB NO 17200S 18068\$/18290\$/20019\$

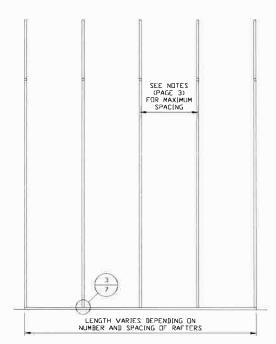
REV. 9

DVG. ND SK-3

THES DOCUMENT IS THE PROPERTY OF ME	dre and associates engineering and
CONSULTING, THE UNAUTHORIZED REPRODU	ICTION, COPYING, OR OTHERVISE USE OF
THIS DOCUMENT IS STRICTLY PROHIBITED	AND ANY INFRINGEMENT THEREUPON MAY
BE SUBJECT TO LEGAL ACTION.	



TYPICAL RAFTER/POST FRAME SECTION (16'-0" < H \( \) 20'-0")



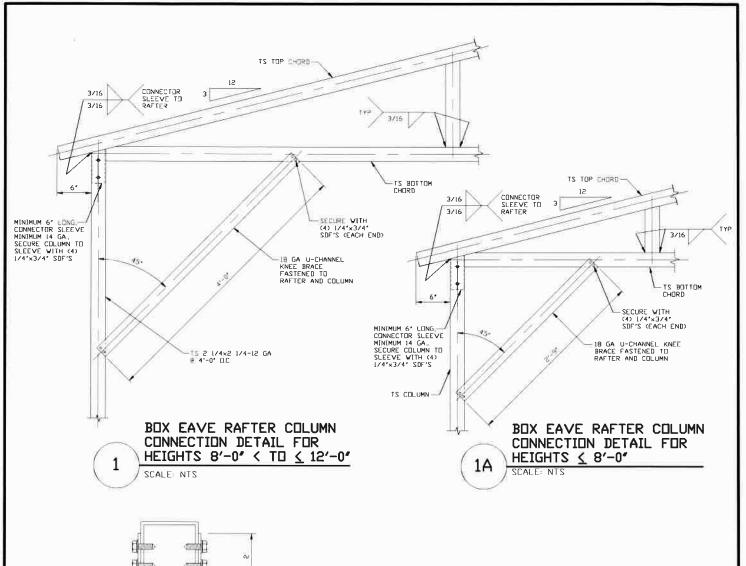
TYPICAL RAFTER/POST SIDE FRAMING SECTION SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

CHECKED BY PDH	40'-0"x20'-0" ENCLOSED BUILDING
311-11111-111	MOUNT AIRY, NC 27030
DRAWN BY: LT	P.O. BOX 1287,
	STEEL BUILDING AND STRUCTURES INC.

PREJECT MGR: VSM	DATE: 4-17-20		JOB NO 17200S 18068\$/18290\$/20019\$			
CLIENT: SBSI	SHT. 5B	DWG. NO SK-3	REV. 9			

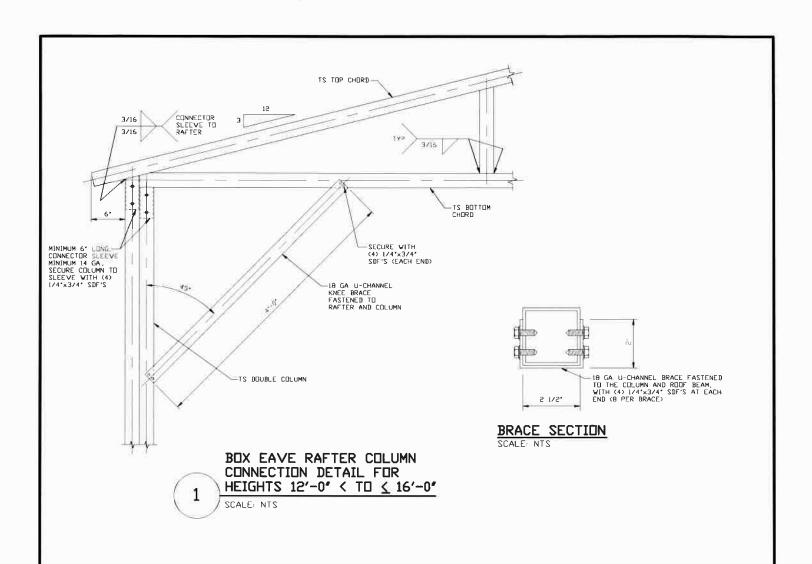


1B GA U-CHANNEL BRACE FASTENED
TO THE COLLUMN AND ROOF BEAM,
WITH (4) 1/4\*x3/4\* SDF'S AT EACH
END (9 PER BRACE)

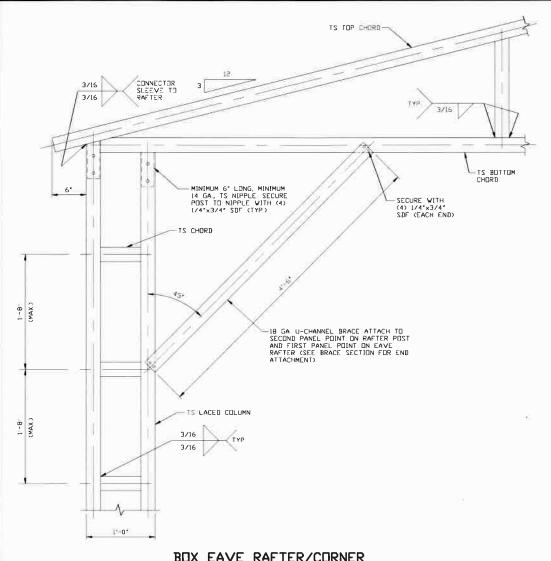
### BRACE SECTION

SCALE: NTS

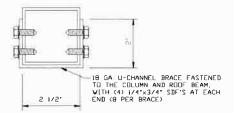
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	M	ILDING AND S P.O. BOX 1 10UNT AIRY, 1 20'-0" ENCLOS	287, NC 270	30
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGR: VSM		SCALE: NTS DVG. ND: SK-	18068	ID 17200S S/18290S/20019S REVJ 9



MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDING AND STRUCTUR P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILD		)30	
THIS DOCUMENT IS THE PROPERTY OF MODINE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGR: VSM  CLIENT: SBSI	DATE: 4-17-20 SHT. 6A	SCALE: NTS	18068	ND: 17200S IS/18290S/20019S REV.: 9

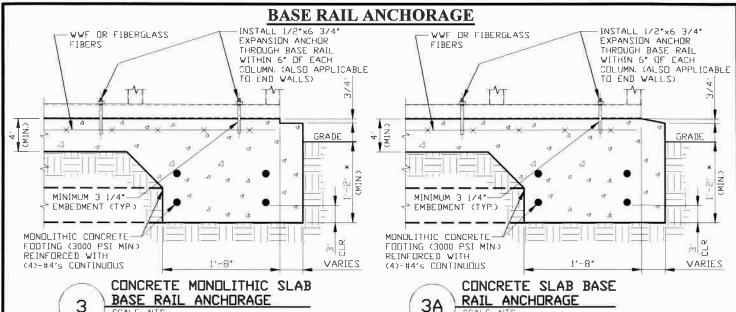


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0'



# BRACE SECTION SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDING AND STRUCTUR P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDI		287, NC 27030
THIS DOCUMENT IS THE PROPERTY OF MODIRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PRELJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS	JOB NO 17200S 18068S/18290S/20019S
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT, SEST	SHT. 6B	DVG. ND SK-	3 REV. 9



### GENERAL NOTES

NOTE CONCRETE MONDLITHIC SLAB DESIGN BASED ON MINIMUM SDIL BEARING CAPACITY OF 1 500 PSF

MINIMUM ANCHOR EDGE DISTANCE IS 4"

\* COORDINATE WITH LOCAL CODES/ORD

### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

### COVER OVER REINFORCING STEEL:

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

### REINFORCING STEEL

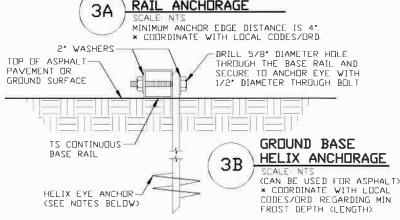
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

- 1 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:

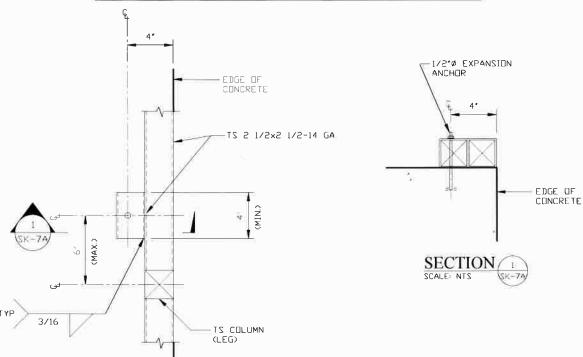
- L FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4° HELICES WITH MINIMUM 30° EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- FOR CORAL USE MINIMUM (2) 4° HELICES WITH MINIMUM 30° EMBEDMENT OR SINGLE 6° HELIX WITH MINIMUM 50" EMBEDMENT
- 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 SO' EMBÉDMENT
- 4 FOR LOOSE 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 SO" EMBEDMENT



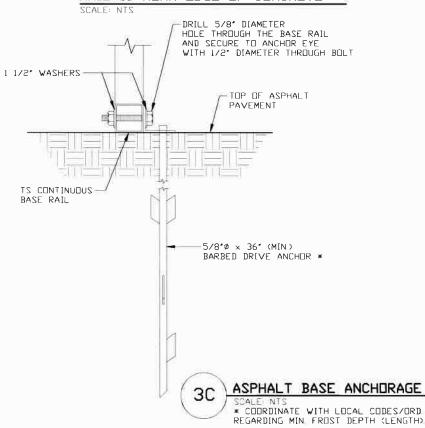
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYDIG, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

	CLIENT: SBSI	IENTI SBSI SHT. 7 DVG. ND SK-3		3	REV.i 9			
	PREJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		ND: 17200S S/18290S/20019S			
MOUNT AIRY, NC 2703 CHECKED BY PDH 40'-0"x20'-0" ENCLOSED BUI					)30 JILDING			
	DRAWN BY: LT	STEEL BU	P.O. BOX 1287,					

# ADDITONAL BASE RAIL ANCHORAGE OPTION

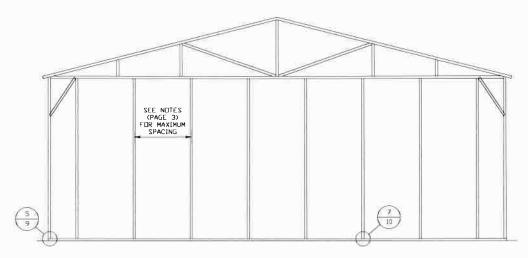


# TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



MOORE AND ASSOCIATES	DRAWN BY: LT		ILDING AND P.O. BOX MOUNT AIRY,	1287,	
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	40'-0">	(20'-0" ENCLO	SED BU	ILDING
THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		ID 17200S \$/18290S/20019S
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 7A	DWG. NO SK-	-3	REV. 9

### BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.
THIS DOCUMENT IS THE PROPERTY OF HOURE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS BOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

$\mathbb{C}_{\mathbb{R}^*}$	CHECKED	BYı	PDH
	PROJECT	MGR	L.V.

DRAWN BY: LT

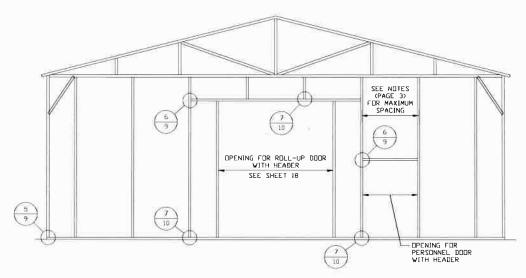
STEEL BUILDING AND STRUCTURES INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
40'-0"x20'-0" ENCLOSED BUILDING

JUB ND 17200S
180685/18290S/20019S

REV. 9

PRILIECT MGR: VSM	DATE: 4-17-20	SCALE: NTS 1
CLIENT: SBSI	sнт. в	DVG. ND: SK-3

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



TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION

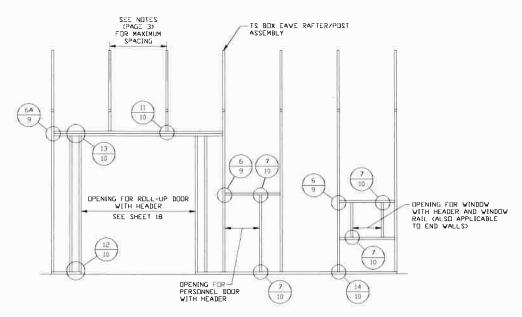
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.
THIS DOCUMENT IS THE PROPERTY OF MODIFIE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DRAWN BY: LT	
CHECKED BY: PDH	

STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING

PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS 18	IB NO: 17200S 068S/18290S/20019S
CLIENT: SBSI	SHT. BA	DWG. NO: SK-3	REV. 9

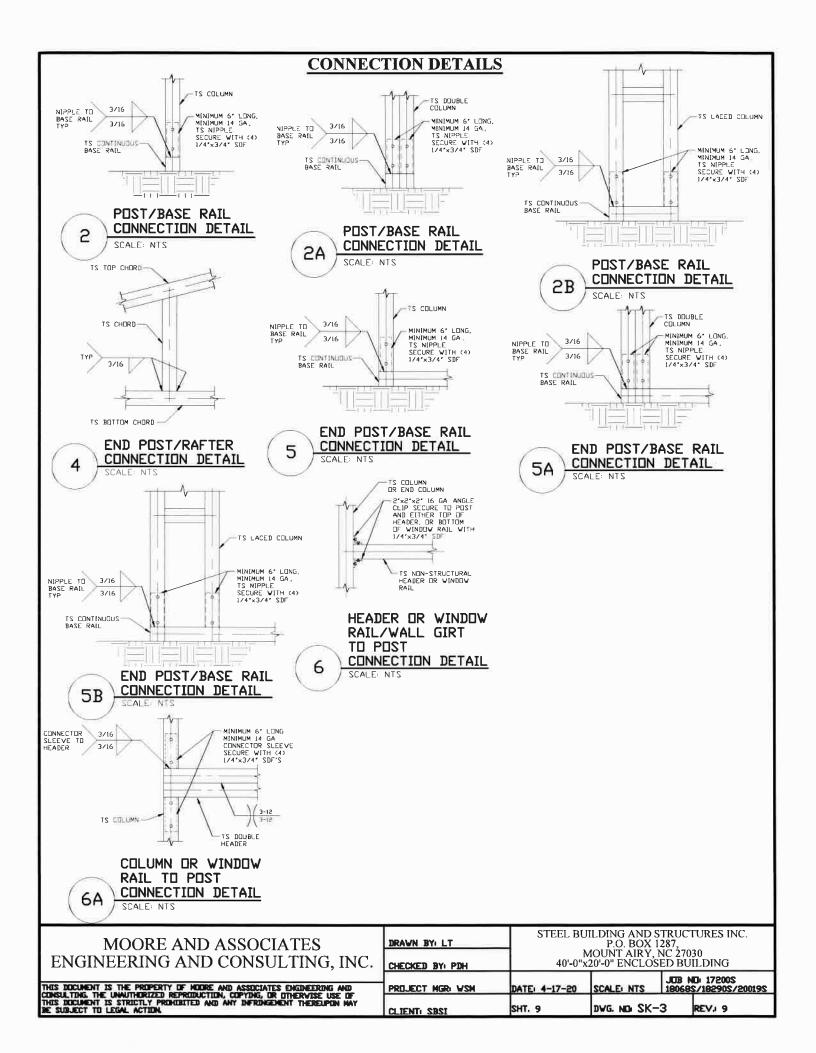
### **BOX EAVE RAFTER SIDE WALL AND WALL OPENINGS**

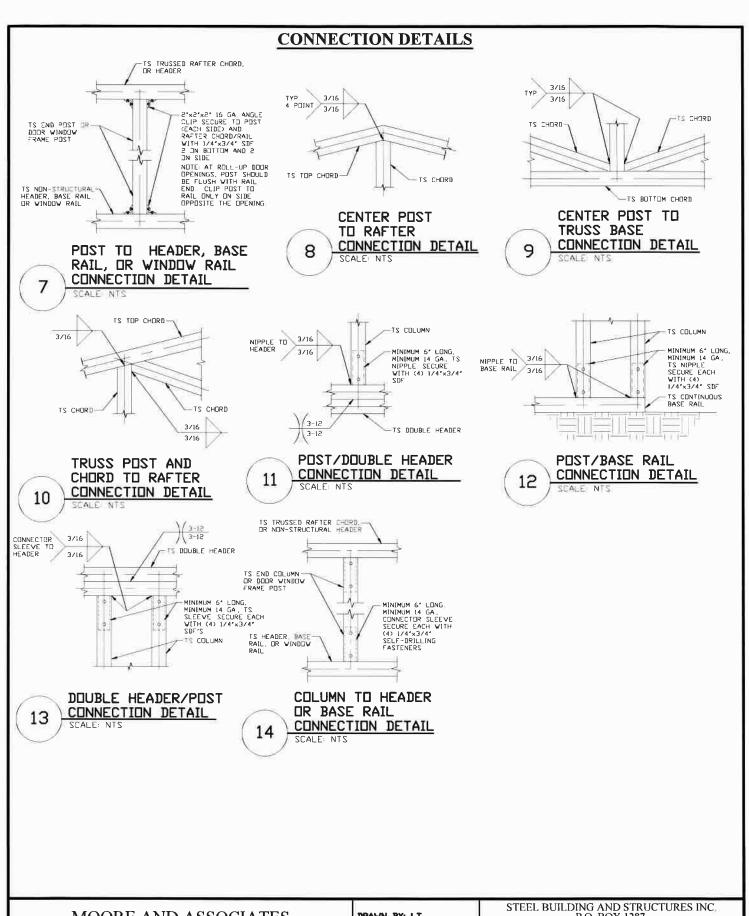


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDING AND STRUCTURES I P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING		30	
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROHOBITED AND ANY DIFRONGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGR: VSM		SCALE: NTS DWG. ND: SK-	18068	ID: 17200\$ \$/18290\$/20019\$ REV.: 9



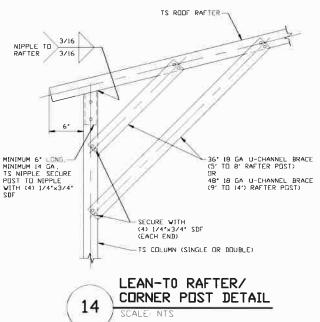


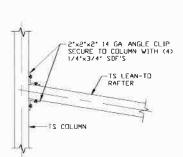
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING			
THIS DOCUMENT IS THE PROPERTY OF MODIFIE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PRELIECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		ND: 17200S S/18290S/20019S
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 10	DVG. ND SK-	3	REV. 9

# 

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

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





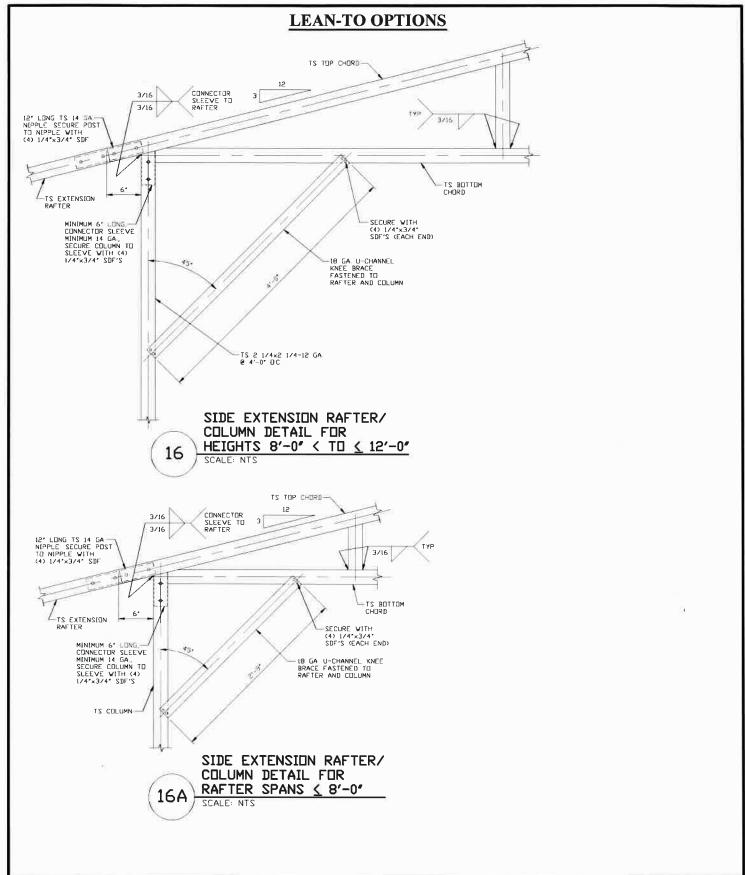
15 LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL

SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

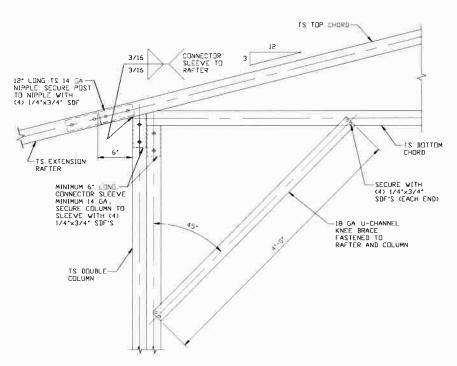
THIS DOCUMENT IS THE PROPERTY OF MOURE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROHOBITED AND ANY DIFFENDIOUNT THEREUPIN MAY
THIS DOCUMENT IS THE PROPERTY OF PERSON HOW INSCRIPTED ENGINEERING HED
ICONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF
THE PROPERTY TO CONTROL & CONTROL AND AND AND ADDRESS OF THE PORT HAY
INTO INCOMENI TO DIKTOIT LEATHERIEN WAN WAL THE KINGELENI INSTITUTUM MAL
DE SUBJECT TO LEGAL ACTION.
SE SOUCEST IN CEME HOTHER

7.	DRAWN BY: LT CHECKED BY: PDH		STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING					
-	PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		ID: 17200S S/18290S/20019S			
	CLIENT: SBSI	SHT. 11	DWG. NO SK-3		REV. 9			



MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDING AND STRUCTURES P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING		30	
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE: 4-17-20	SCALE NTS	JOB N	D 17200S S/18290S/20019S
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING OR OTHERVISE USE OF THOS DOCUMENT IS STRICTLY PROHOBITED AND ANY INFROMEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 11A	DWG. ND: SK-	-3	REV. 9

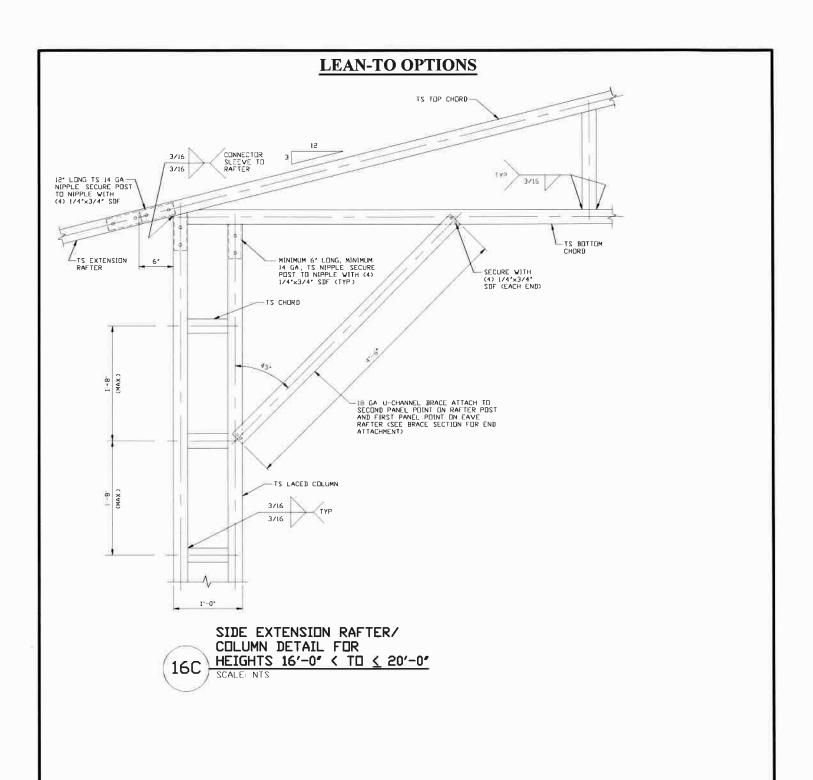
### **LEAN-TO OPTIONS**



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0' < TO < 16'-0'
SCALE: NTS

16B

CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPOIN MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 11B	DWG. ND: SK-	3	REV. 9
THIS DOCUMENT IS THE PROPERTY OF HOURE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		Di 17200\$ \$/18290\$/20019\$
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT CHECKED BY: PDH	STEEL BUILDING AND STRUCTURE P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDII		30	
		CTUEL DIT	I DING AND C	TDIICT	TIDES INC



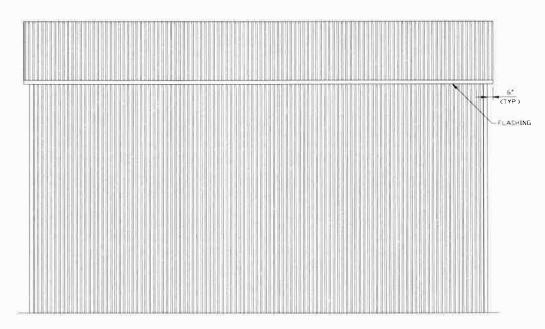
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAVN BY: LT CHECKED BY: PDH	STEEL BUILDING AND STRUCTUR P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILD		287, NC 27030	C.
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PRILJECT MGR: VSM CLIENT: SBSI	_	SCALE: NTS DVG. ND: SK-	JUB ND 17200S 18068S/18290S/2	200198

# VERTICAL ROOF/SIDING OPTION

 $\frac{\text{TYPICAL END ELEVATION VERTICAL ROOF/SIDING}}{\text{SCALE NTS}}$ 

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDING AND STRUCTURES IN P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING			30
THIS DOCUMENT IS THE PROPERTY OF MOURE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.			SCALE: NTS	18068	ID: 17200\$ \$/18290\$/20019\$ REV: 9



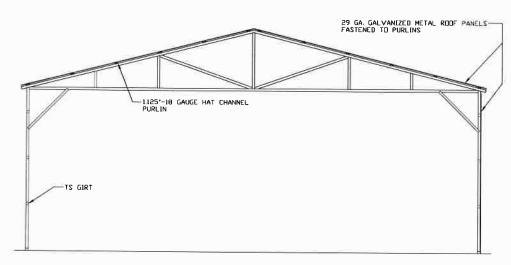


TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM			D 17200S	
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PREJECT MGR: VSM  CLIENT: SBSI	DATE: 4-17-20 SHT. 12A	DVG. ND SK-		S/18290S/20019S REV.: 9

### **VERTICAL ROOF/SIDING OPTION**



 $\frac{\text{TYPICAL SECTION VERTICAL ROOF/SIDING OPTION}}{\text{SCALE: NTS}}$ 

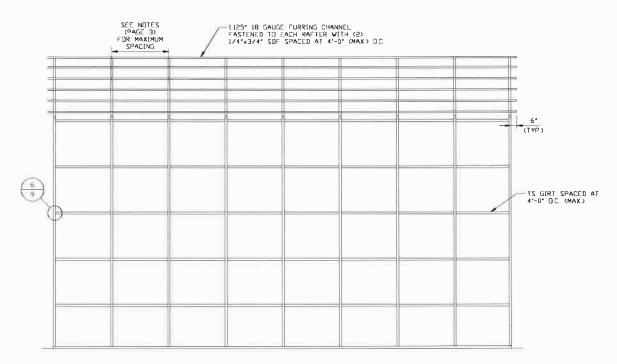
MOORE.	AND A	SSOCIAT	ES	
<b>VEERING</b>				NC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROMOBITED AND ANY INFROMEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

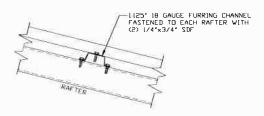
			ITR NIL 179000
CHECKED BY: PDH		IOUNT AIRY, N 20'-0" ENCLOSE	
DRAWN BY: LT	STEEL BUI	LDING AND S P.O. BOX 12	TRUCTURES INC.

PROJECT MGR: VSM	DATE: 4-17-20		ND 17200S 8S/18290S/20019S		
CLIENT: SBSI	SHT. 13	DVG ND SK-3	REV. 9		

### **VERTICAL ROOF/SIDING OPTION**



# $\frac{\text{TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION}}{\text{SCALE NTS}}$



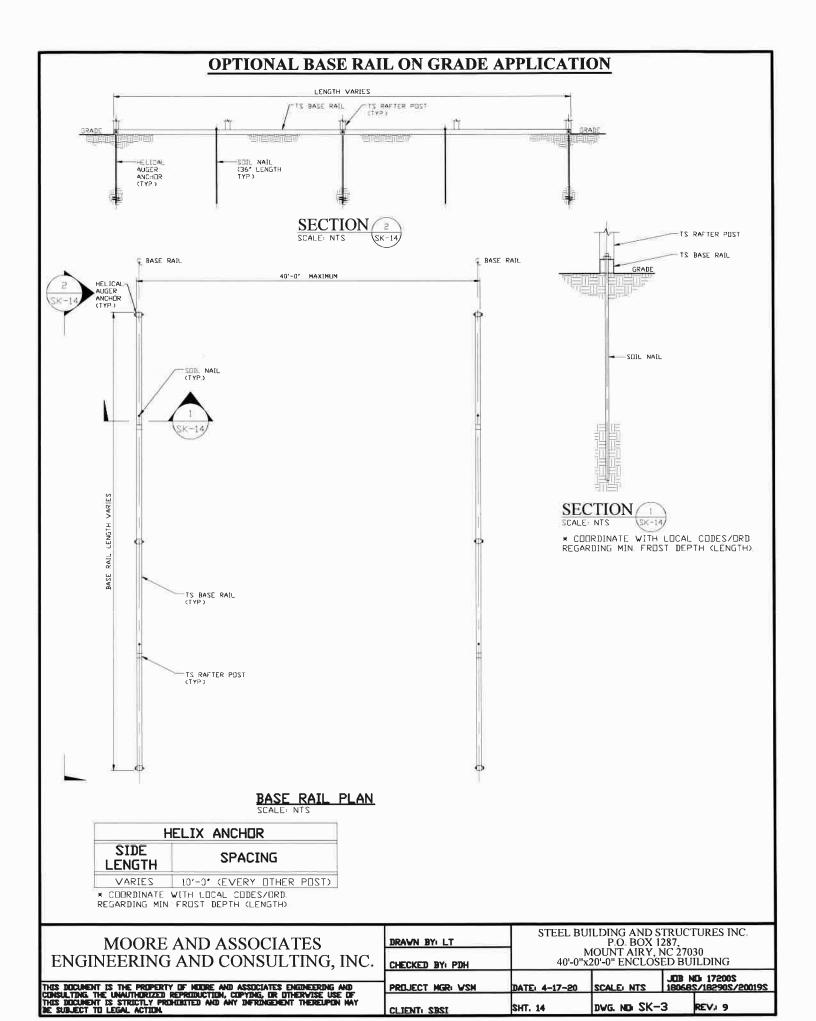
# PANEL ATTACHMENT (ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS

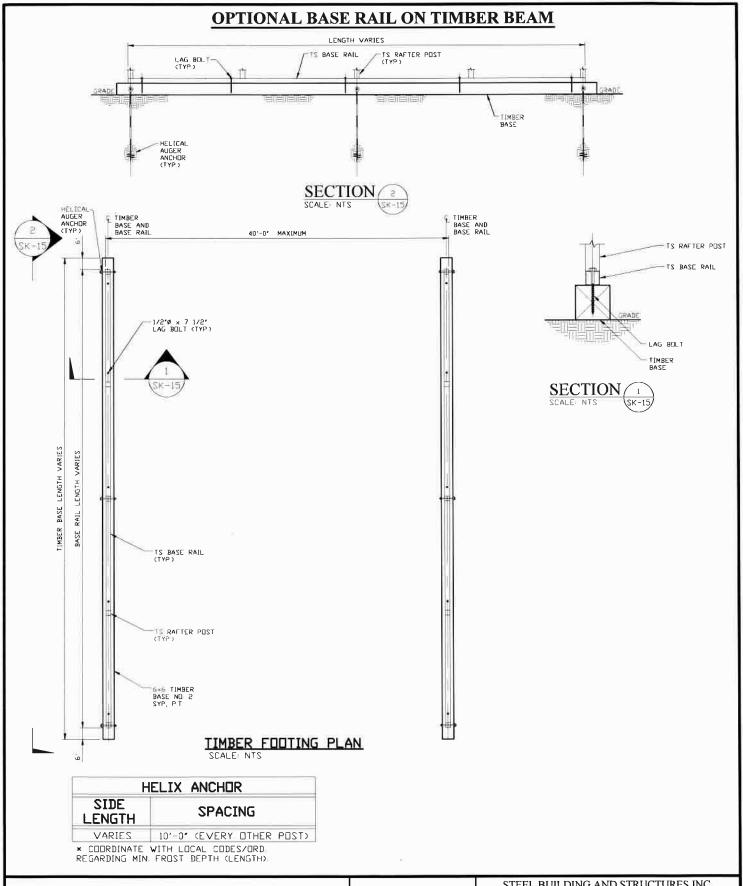
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODIRE AND ASSOCIATES ENGINEERING AND	_
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	
THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY	
BE SUBJECT TO LEGAL ACTION.	

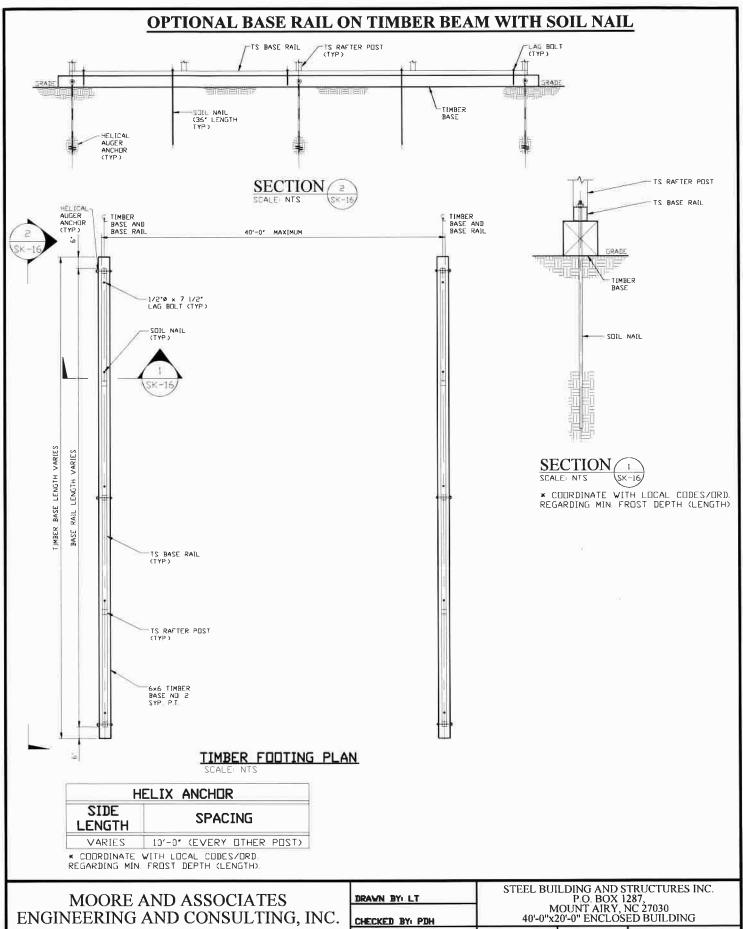
PRILIECT MGR: VSM	DATE: 4-17-20	SCALE: NTS	JUB ND: 17200S 18068S/18290S/20019S		
CHECKED BY: PDH	MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING				
DRAWN BY: LT	STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287,				

PRIDECI MINI AZM	WATE: 4-17-20	SCALE NIZ TROP	32/185302/500132
CLIENT: SBSI	SHT. 13A	DVG. ND: SK-3	REV.1 9





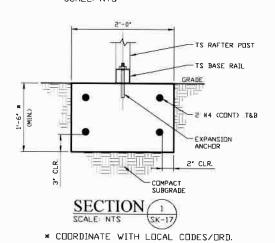
MOORE AND ASSOCIATES	DRAWN BY: LT	N	STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287, MOUNT AIRY, NC 27030			
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	40'-0"x	40'-0"x20'-0" ENCLOSED BUILDING			
THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		(D) 17200\$ \$/18290\$/20019\$	
CONSULTING THE UNAUTHERIZED REPREDUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROMOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 15	DWG. NO SK-	3	REV. 9	



MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	- N	P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING			
THUS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE: 4-17-20	SCALE: NTS		Di 17200S S/18290S/20019S	
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: SBSI	SHT. 16	DWG. NO SK-	3	REV. 9	

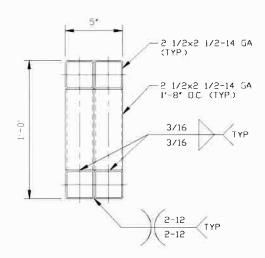
# **OPTIONAL CONCRETE STRIP FOOTING** FOOTING AND BASE RAIL 40'-0" MAXIMUM 9 LENGTH VARIES FOOTING LENGTH VARIES 1/2"Ø EXPANSION ANCHOR (TYP) RAIL BASE TS BASE RAIL TS RAFTER POST CONCRETE STRIP FOOTING (3000 PSI MIN.)

# CONCRETE STRIP FOOTING PLAN SCALE: NTS



THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY DIFFONGEMENT THERELPON MAY BE SUBJECT TO LEGAL ACTION	CLIENT: SRSI	SHT. 17	DVG. ND SK-	-3	REV. 9		
THIS DOCUMENT IS THE PROPERTY OF MODIFE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PRELIECT HGR: VSH	DATE: 4-17-20	SCALE: NTS		D 17200\$ \$/18290\$/20019\$		
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING					
MOORE AND ASSOCIATES	DRAWN BY: LT		STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287,				

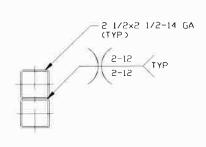
### SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR

OPENINGS 10'-0' < LENGTH ≤ 20'-0'

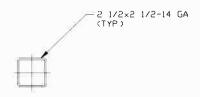
SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS ≤ 10'-0'

SCALE: NTS

### **END WALL HEADER OPTIONS**



HEADER DETAIL FOR DOOR OPENINGS ≤ 12'-0'

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT CHECKED BY: PDH	STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING			30
CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY	PROJECT MGR: VSM		SCALE: NTS	18068	17200S S/18290S/20019S REV. 9