ENCLOSED BUILDING

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

14 December 2018 Revision 8 M&A Project No. 15130S/15207S/15209S/16155S/16207S/17155S/17200S/18068S/18290S

Prepared for:

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

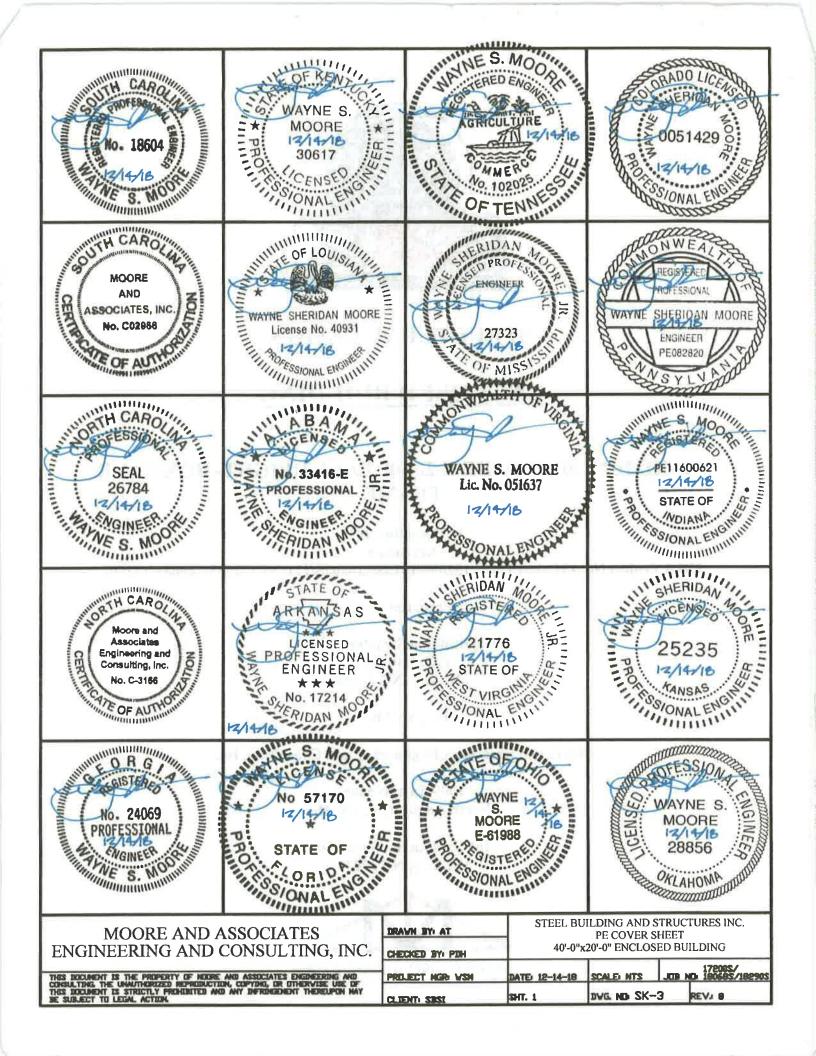
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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OF MARY OF	Professional Certification I hereby certify that these documents were prepare approved by me, and that a duly licensed profession engineer under the laws the State of Maryland, License No. 49744, Expiration Date 6/6/4	ed or at I arn nal of			
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DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET (1 DF 2)
SHEET 1A	PE SEAL COVER SHEET (2 DF 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
SHEET 6	TYPICAL RAFTER/POST FRAME AND SIDE FRAMING SECTIONS
SHEET 7	TYPICAL RAFTER/POST CONNECTION DETAILS
SHEET 8	TYPICAL RAFTER/POST CONNECTION DETAILS
SHEET 9	BASE RAIL ANCHORAGE
SHEET 10	TYPICAL ENDWALL FRAMING SECTIONS
SHEET 10A	TYPICAL ENDWALL OPENING FRAMING SECTIONS
SHEET 11	TYPICAL ENDWALL FRAMING SECTIONS
SHEET 11A	TYPICAL ENDWALL OPENING FRAMING SECTIONS
SHEET 12	TYPICAL SIDEWALL OPENING FRAMING SECTIONS
SHEET 13	WALL OPENING DETAILS
SHEET 14	WALL OPENING DETAILS
SHEET 15	LEAN-TO OPTIONS
SHEET 16	LEAN-TO OPTIONS
SHEET 17	VERTICAL ROOF/SIDING OPTION END ELEVATION
SHEET 17A	VERTICAL ROOF/SIDING OPTION SIDE ELEVATION
SHEET 18	VERTICAL ROOF/SIDING OPTION SECTION
SHEET 19	VERTICAL ROOF/SIDING OPTION SIDE FRAMING
SHEET 20	OPTIONAL BASE RAIL ON GRADE APPLICATION
SHEET 21	OPTIONAL BASE RAIL ON TIMBER BEAM
SHEET 22	OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL
SHEET 23	OPTIONAL CONCRETE STRIP FOOTING
SHEET 24	OPTIONAL HEADER
SHEET 25	ADDITIONAL BASE RAIL ANCHORAGE OPTION

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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 AND 2015 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD
 - = 1.5 PSF
 - B) ROOF LIVE LOAD
- = 12 PSF
- C) GROUND SNOW LOAD = 35 PSF (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
- 4. ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH): MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL POSTS UNLESS NOTED OTHERWISE.
- 6. LOW HAZARD RISK CATEGORY I (WIND).
- 7 WIND EXPOSURE CATEGORY B.
- 8 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE STEEL TUBE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 9. AVERAGE FASTENER SPACING UN-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS (INTERIOR OR END) = 8 INCHES.
- 10. 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 14" (3:12 PITCH). SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 11. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE: SOIL SITE CLASS = D RISK CATEGORY I/II/III

R= 3.25

\$_{D\$}= 2.039

S_{DI}= 1258 I_E= 1.0

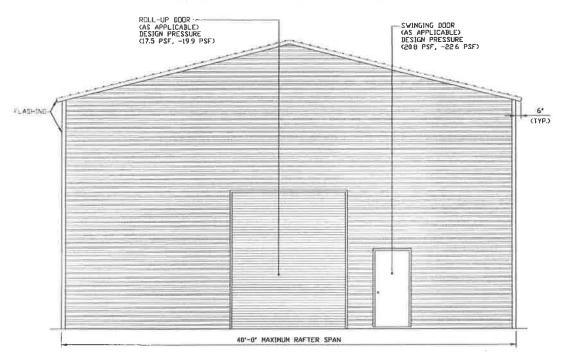
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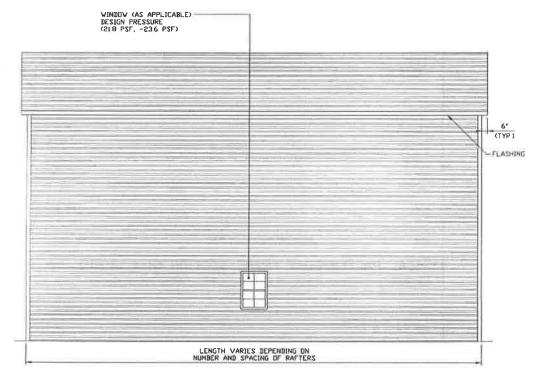
BOX EAVE FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION-HORIZONTAL ROOF SCALE: NTS

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BOX EAVE FRAME RAFTER ENCLOSED BUILDING



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF SCALE: NTS

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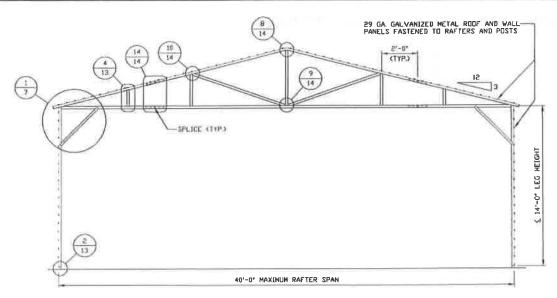
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PROJECT NOW VSM DATE: 12-14-18 SHT. 4A

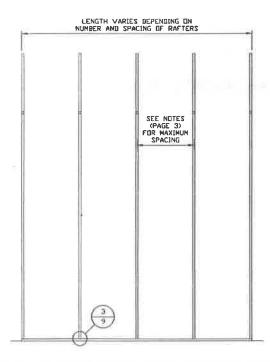
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JEB ND 180685/182905 DVG ND SK-3 REV. B

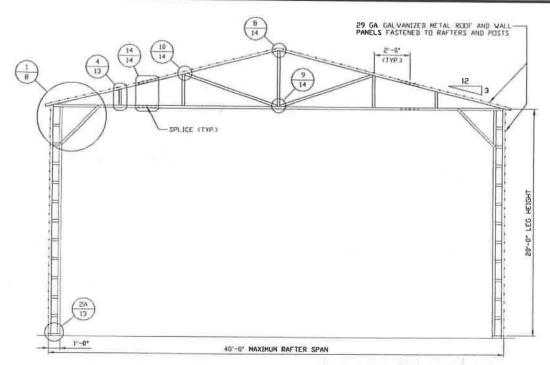


TYPICAL RAFTER/POST FRAME SECTION (H \leq 14'-0") SCALE: NTS

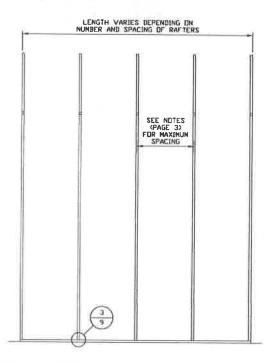


TYPICAL RAFTER/POST SIDE FRAMING SECTION SCALE: NTS

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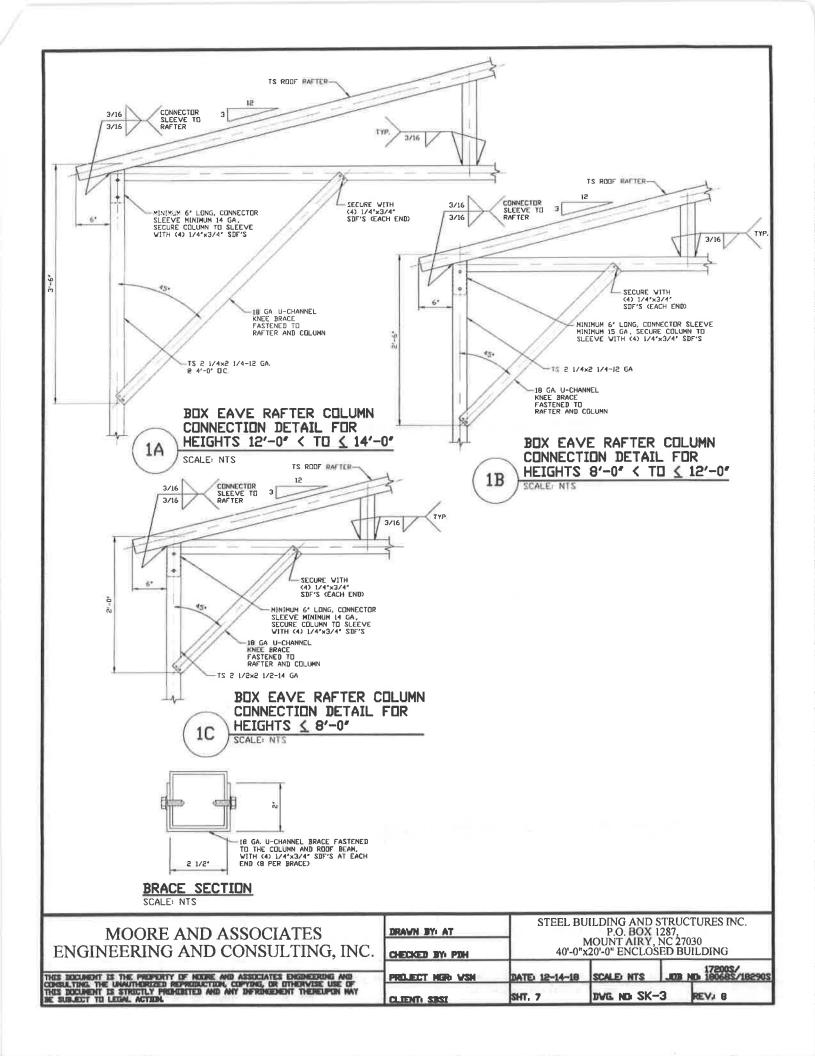


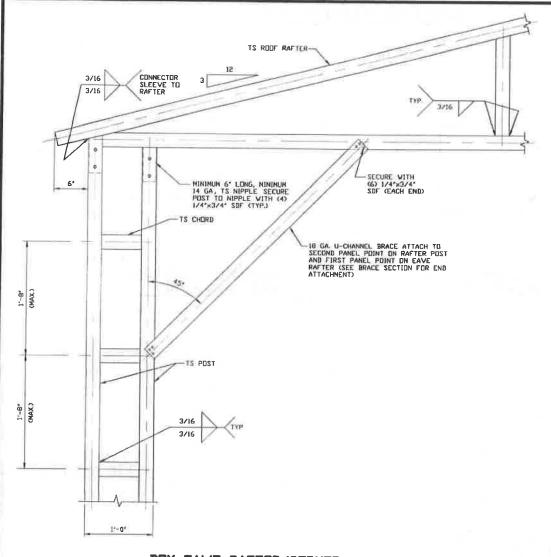
TYPICAL RAFTER/PUST FRAME SECTION (14' < H \(\) 20')



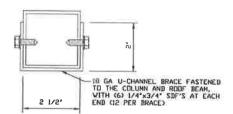
TYPICAL RAFTER/POST SIDE FRAMING SECTION SCALE: NTS

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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO < 20'-0"

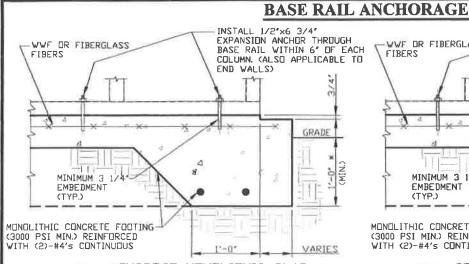


BRACE SECTION
SCALE: NTS

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INSTALL 1/2°x6 3/4° EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6° OF EACH FIBERS COLUMN. (ALSO APPLICABLE TO CZIIAW TINA GRADE (MIM) MINIMUM 3 1/4" EMBEDMENT MONOLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS VARIES

WWF DR FIBERGLASS

ЗB

3A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 41.
** COURDINATE WITH LOCAL CODES/ORD

GENERAL NOTES

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

CONCRETE

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

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETÉ COVER OVER REINFORCING BARS SHALL BE PER ACT-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 1 1/2' LLSEWHERE.

REINFORCING STEEL

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A105 OR FIBERGLASS FIBER REINFORCEMENT.

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

- 1. REINFORCEMENT IS BENT COLD.
- 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:

- FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
- FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT.
- 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.

MINIMUM ANCHOR EDGE DISTANCE IS 4°. ** COORDINATE WITH LOCAL CODES/ORD 2" WASHERS DRILL 5/8' DIAMETER HOLE TOP OF ASPHALT THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH PAVEMENT OR GROUND SURFACE 1/2' DIAMETER THROUGH BOLT of TS CONTINUOUS BASE RAIL GROUND BASE HELIX ANCHORAGE HELIX EYE ANCHOR-(CAN BE USED FOR ASPHALT) (SEE NOTES BELOW)

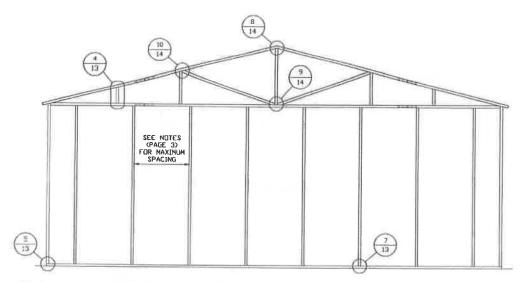
CONCRETE SLAB BASE

RAIL ANCHORAGE

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CLIENTA SIST	SHT. 9	DVG. ND. SK-	-3	REV. 8	



TYPICAL BUX EAVE RAFTER END WALL FRAMING SECTION (H \leq 14'-0") SCALE: NTS

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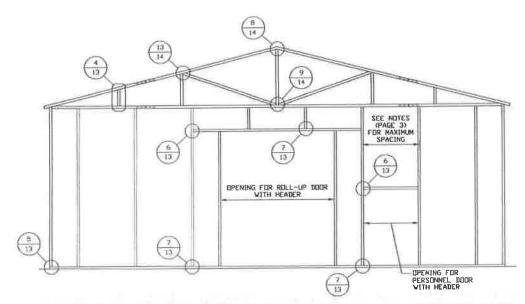
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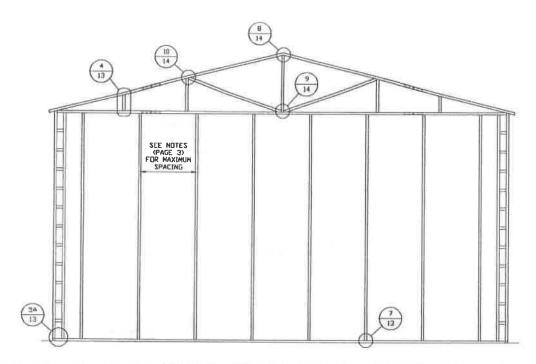
DVG. ND SK-3

REVI B



TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION (H & 14'-0')

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TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION (14'-0" < H \(\) 20'-0")

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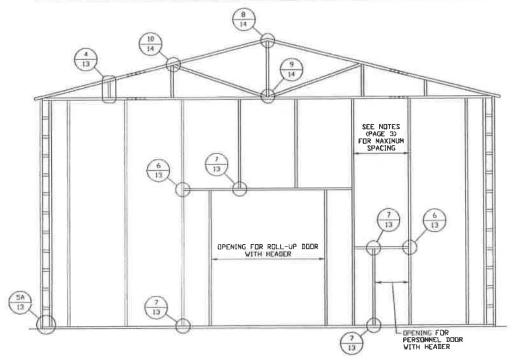
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PROJECT MGR VSM	DATE: 12-14-18	SCALE: NTS	JUB NO 180683/1829

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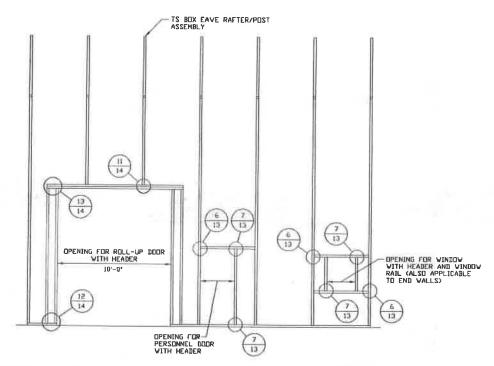
DVG. ND SK-3

REV. 8



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION (14'-0" < H & 20'-0")

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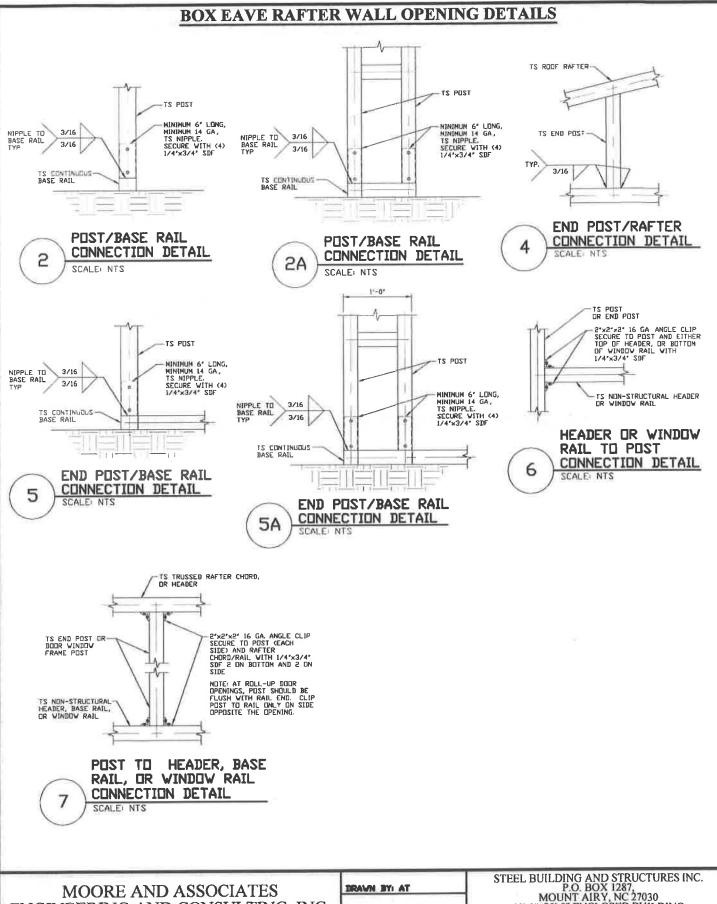


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION
SCALE: NTS

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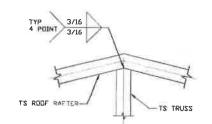
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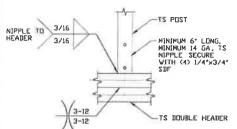


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BOX EAVE RAFTER WALL OPENING DETAILS

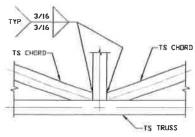


8 CENTER POST TO RAFTER CONNECTION DETAIL

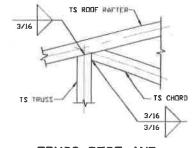


POST/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

11

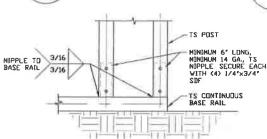


9 CENTER POST TO TRUSS BASE CONNECTION DETAIL SCALE: NTS



TRUSS POST AND CHORD TO RAFTER

CONNECTION DETAIL



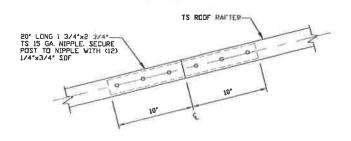
3/16

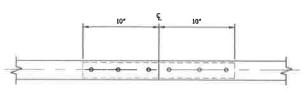
NIPPLE TO
HEADER

MINIMUM 6' LONG,
HIMIMUM 14 GA, TS
HIPPLE SECURE EACH
VITH (4) 1/4'×3/4'
TS POST

POST/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

DOUBLE HEADER/POST CONNECTION DETAIL SCALE: NTS





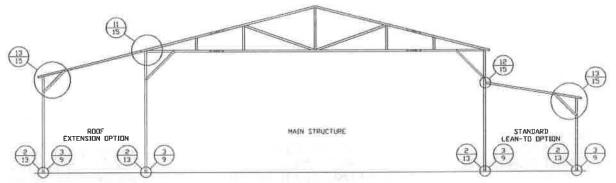
SPLICE CONNECTION DETAIL

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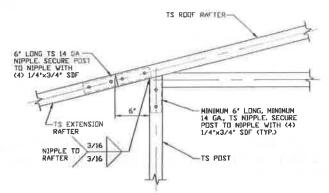
DRAWN BY: AT		STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING				
PROLECT NOW VSN	DATE: 12-14-19	SCALE: NTS	m	17200S/ ND 18068S/18290S		
CLIENT, SPST	SHT, 14	DAG ND ZK-	-3	REV. B		

BOX EAVE RAFTER LEAN-TO OPTIONS (H ≤ 14'-0")

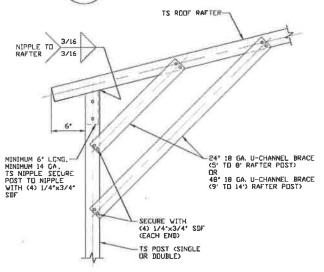


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS MAXIMUM WIDTH OF STANDARD LEAN-TO AND ROOF EXTENSION IS 12'-0'



SIDE EXTENSION RAFTER/
CORNER POST DETAIL
SCALE: NTS



LEAN-TO RAFTER/
CORNER POST DETAIL

SCALE NTS

T ^ T	
111/1	2'x2'x2' 14 GA ANGLE CLIP SECURE TO COLUMN WITH (4) 1/4'x3/4" SDF'S
Ja-	TS LEAN-TO RAFTER
1	
	COLUMN
147	

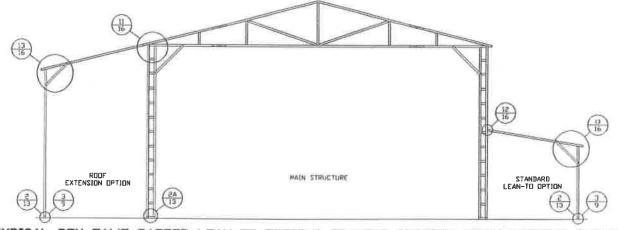
12 | LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL | SCALE NTS

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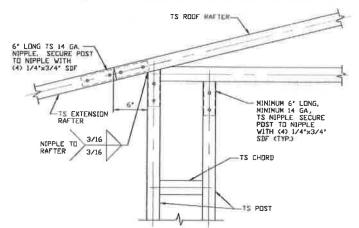
CLIENTI SUSI	SHT. 15	DVG ND SK	-3	REV. 8			
PROJECT NGR VSN	DATE 12-14-18	SCALE NTS	JEB	17200S/ 18068S/18290S			
CHECKED BY: PBH	40'-0"	MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING					
DRAVN BY: AT	STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287,						

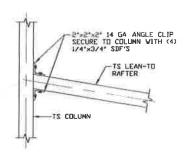
BOX EAVE RAFTER LEAN-TO OPTIONS (14'-0" < H ≤ 20'-0")



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'



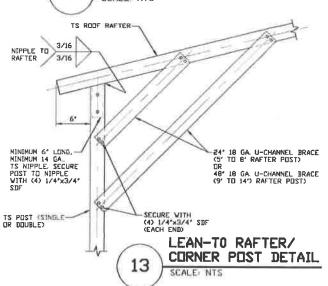


LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL

SCALE: NTS

SIDE EXTENSION RAFTER/CORNER POST DETAIL

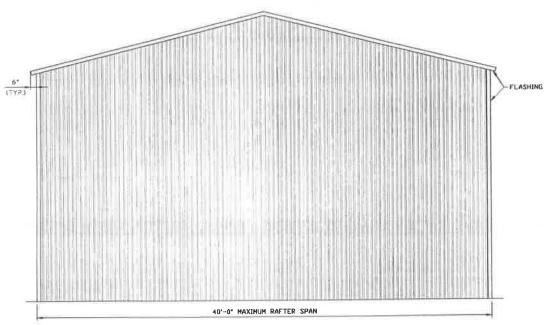
SCALE: NTS



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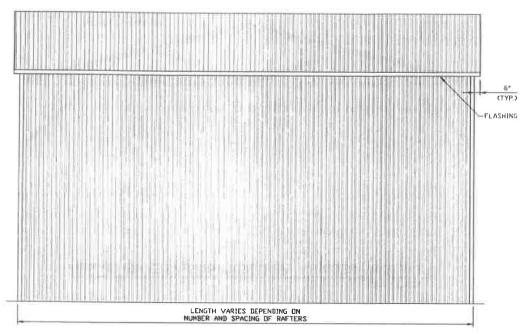
	DRAVN BY: AT CHECKED BY: PDH		P.O. BOX	IG AND STRUCTURES INC. O. BOX 1287, T AIRY, NC 27030 ENCLOSED BUILDING					
7	PROJECT NGR VSM	DATE: 12-14-18	SCALE NTS	Jan .	17200S/ 18068S/18290S				
	CLIENT: SESI	SHT. 16	DVG. ND SK-	-3	REVJ 8				



TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

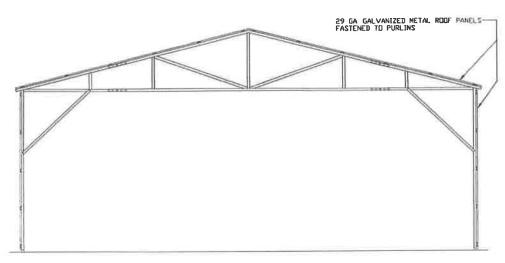
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	CHECKED BY: PIH	40'-0"	P.O. BOX 1287, MOUNT AIRY, NC 27030 x20'-0" ENCLOSED BUILDING			
		STEEL BUILDING AND STRUCTURES INC.				



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

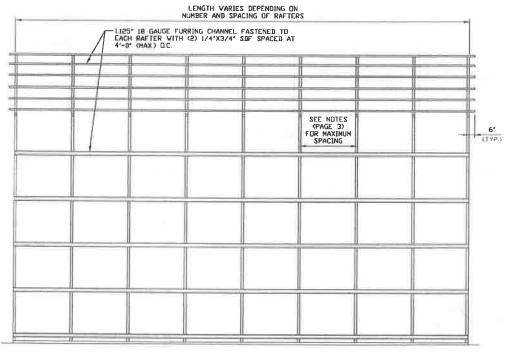
SCALE: NTS

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TYPICAL SECTION VERTICAL ROOF/SIDING OPTION SCALE: NTS

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TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION SCALE: NTS

1.125' 18 GAUGE FURRING CHANNEL
FASTENED TO EACH RAFTER WITH (2)
1/4'x3/4' SDF.

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

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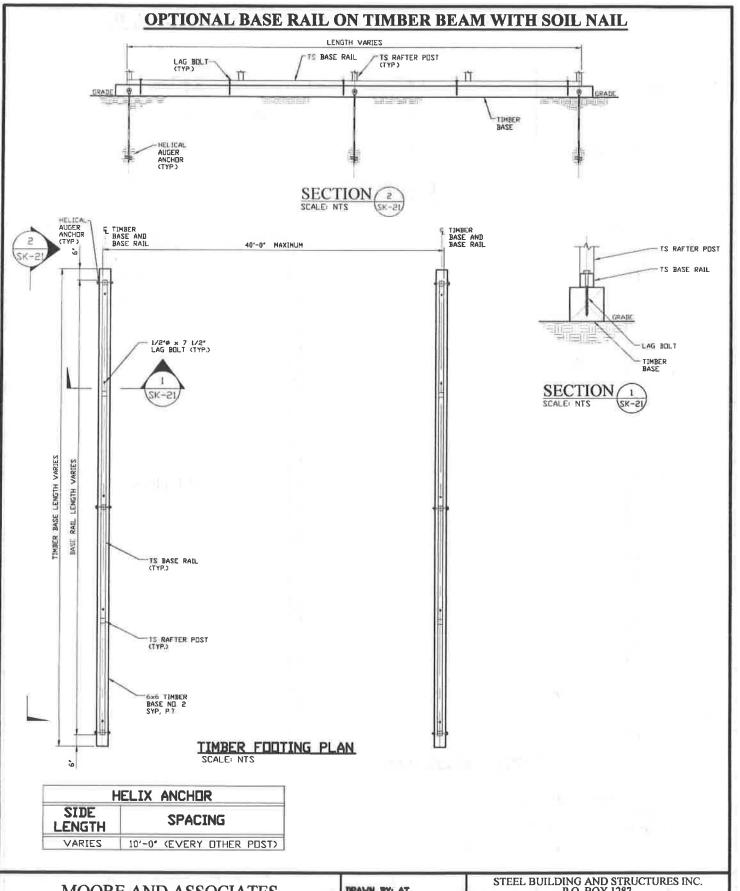
STEEL BUILDING AND STRUCTURES INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
40'-0"x20'-0" ENCLOSED BUILDING

PRILECT MGB VSM DATE 12-14-18 SCALE NTS JEB NO 180685/18290S

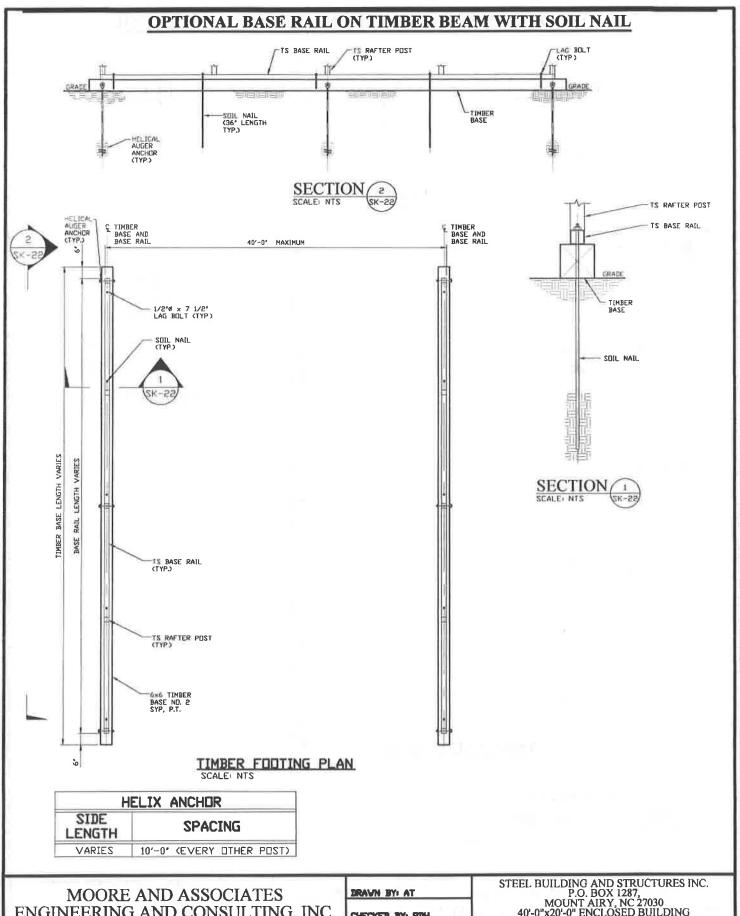
CLIENTO SBSI SHT. 19 DVG. NO. SK-3 REV. 8

OPTIONAL BASE RAIL ON GRADE APPLICATION LENGTH VARIES TS BASE PAR GRADE SRADE SDIL NAIL (36" LENGTH TYP.) SECTION (2 SCALE: NTS TS RAFTER POST & BASE RAIL BASE RAIL TS BASE RAIL 40'-0' MAXINUM GRADE SDIL NAIL -SUIL NAIL RAIL LENGTH VARIES SECTION (TS BASE RAIL TS RAFTER POST (TYP.) BASE RAIL PLAN SCALE: NTS HELIX ANCHOR SIDE **SPACING** LENGTH VARIES 10'-0" (EVERY DTHER POST) STEEL BUILDING AND STRUCTURES INC

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAVN BY: AT		P.O. BOX 1 MOUNT AIRY, 1 20'-0" ENCLOS	287, NC 270	30
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III-130-CIII ANNI CONSTITUTION								

OPTIONAL CONCRETE STRIP FOOTING FOOTING AND BASE RAIL FOOTING AND BASE RAIL 40'-0" MAXIMUM 1/2'# EXPANSION ANCHOR (TYP) RAII TS BASE RAIL TS RAFTER POST CONCRETE STRIP FOOTING (3000 PSI MIN) CONCRETE STRIP FOOTING PLAN SCALE: NTS 1*-6* TS RAFTER POST TS BASE RAIL GRADE CMINO 2 44 (CONT) T&B EXPANSION ANCHOR 2º CLR. 2 8 SECTION 1 SK-23 * COURDINATE WITH LOCAL CODES/ORD. STEEL BUILDING AND STRUCTURES INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 40'-0"x20'-0" ENCLOSED BUILDING MOORE AND ASSOCIATES DRAWN BY AT ENGINEERING AND CONSULTING, INC. CHECKED BY: PDH THIS EXCLUENT IS THE PROPERTY OF NODE, AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNIANTHORIZED REPRODUCTION, COPYDIG, OR OTHERWISE USE OF THIS DOCUMENT IS STROCTLY PRODUCTED AND ANY INTRINGEMENT THEROUPON MAY BE SUBJECT TO LEGAL ACTION. PROLECT MGR: VSM DATE 12-14-18 SCALE NTS

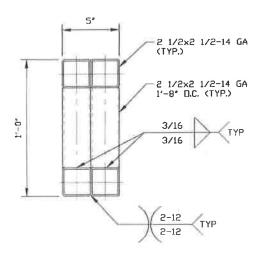
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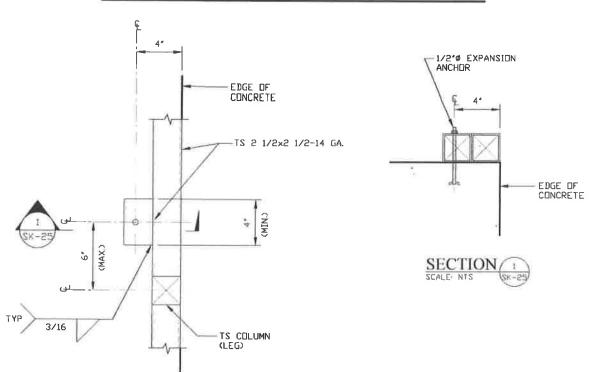
OPTIONAL HEADER



HEADER DETAIL FOR DOOR OPENINGS 10'-0" < LENGTH ≤ 20'-0" SCALE: NTS

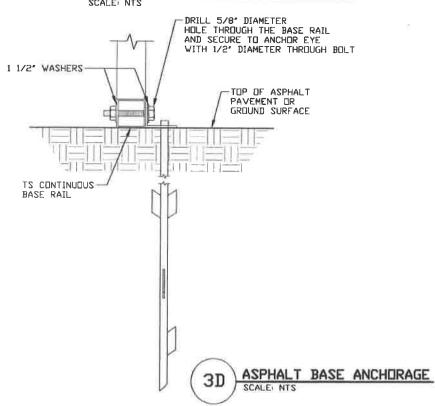
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ADDITONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



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