

STRUCTURAL DESIGN ENCLOSED BUILDING

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

14 December 2018 Revision 7 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S

Prepared for:

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

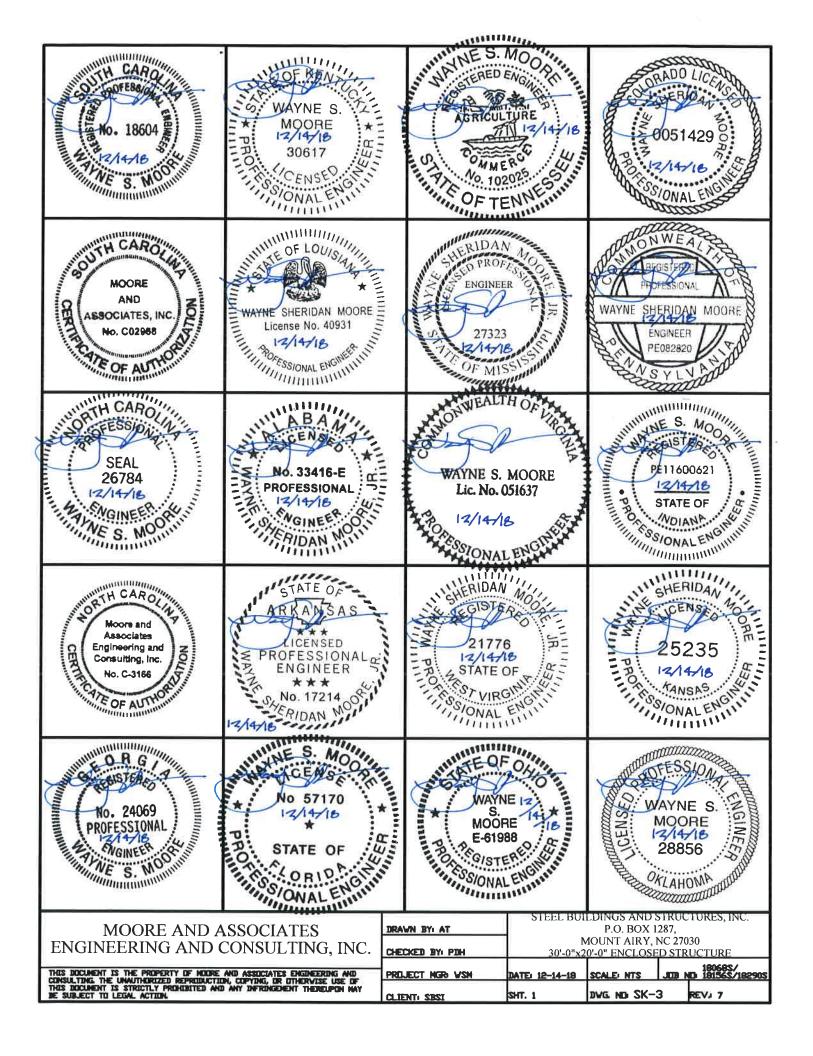
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

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IN S. MO PART	I hereby certify that these documents were prepared						
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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 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) LIVE LOAD = 12 PSF

C) GROUND SNOW LOAD = 30 PSF (< 26'-0"), 35 PSF (26'-0" < W < 30'-0")

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

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH): MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL POSTS UNLESS NOTED OTHERWISE.
- 6. RISK CATEGORY I.
- 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 TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
- 10. 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.
- 11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.

13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

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

R= 3.25 $I_E = 1.0$ V= CsW $S_{DS} = 2.039$

S_{D1}= 1.258

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

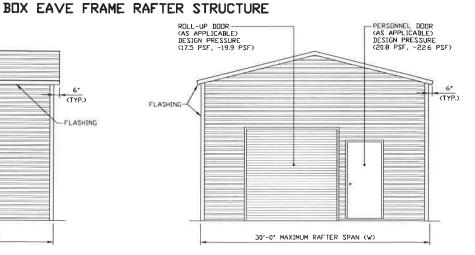
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BOX EAVE FRAM WINDDW (AS APPLICABLE) DESIGN PRESSURE (2) 8 PSF, -236 PSF) LENGTH VARIES DEPENDING DN NUMBER AND SPACING OF RAFTERS

TYPICAL SIDE ELEVATION
SCALE: NTS



TYPICAL END ELEVATION SCALE: NTS

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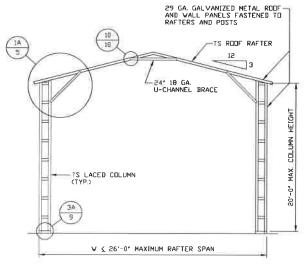
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	I STEEL BUIL	LDINGS AND S	STRIK	THRES INC.

BOW EAVE FRAME RAFTER STRUCTURE WINDOW (AS APPLICABLE) — DESIGN PRESSURE (218 PSF, -23.6 PSF) -PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE (208 PSF, -226 PSF) ROLL-UP DOOR— (AS APPLICABLE) DESIGN PRESSURE (17.5 PSF, -19.9 PSF) FLASHING-FLASHING LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS 30'-0' MAXIMUM RAFTER SPAN (W)

TYPICAL SIDE ELEVATION SCALE: NTS

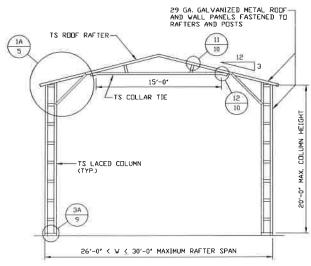
TYPICAL END ELEVATION
SCALE: NTS

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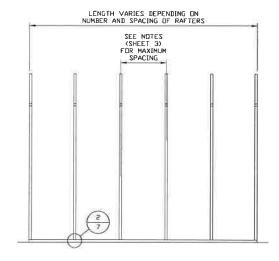


TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



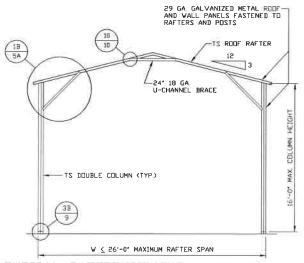
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

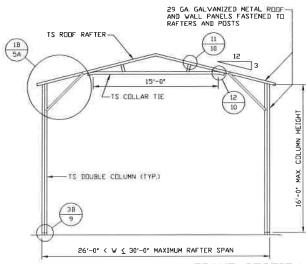
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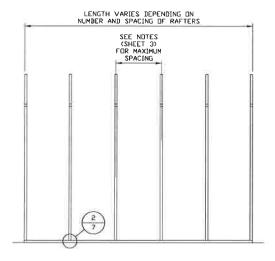


TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



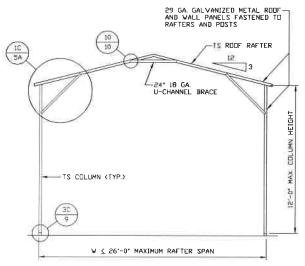
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

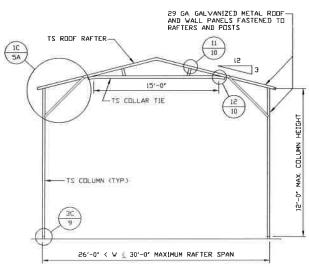
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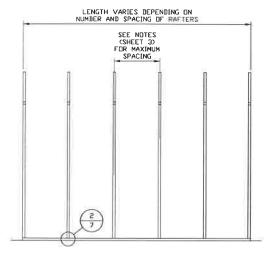


TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

SCALE: N12



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



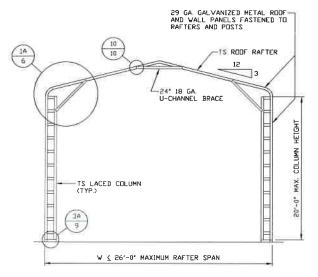
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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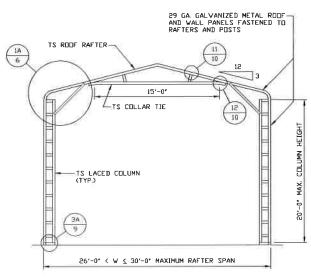
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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERS

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

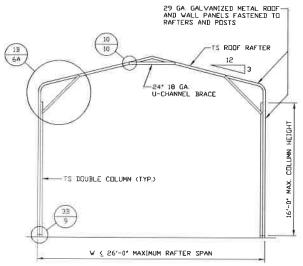
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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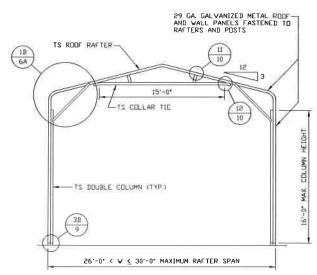
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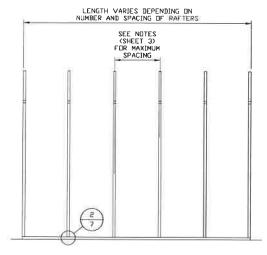


TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



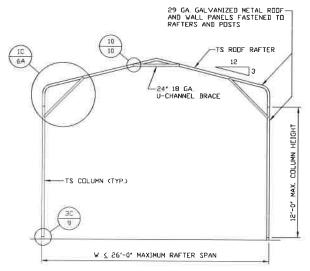
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

29 GA. GALVANIZED METAL RUDF
AND WALL PANELS FASTENED TO
RAFTERS AND POSTS

TS RODF RAFTER

10

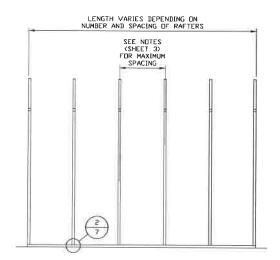
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30

4

26'-0' < V \(\) 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

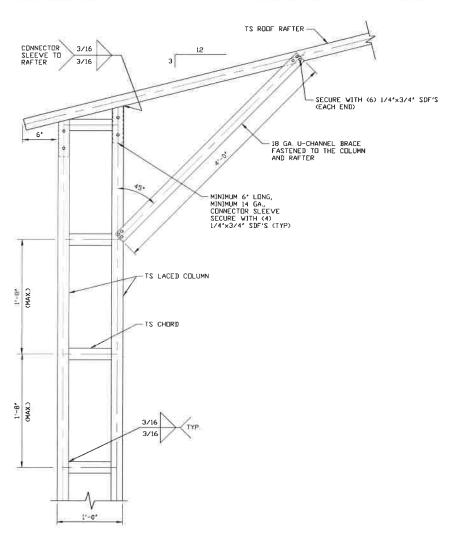


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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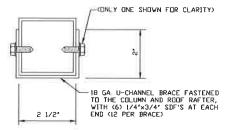
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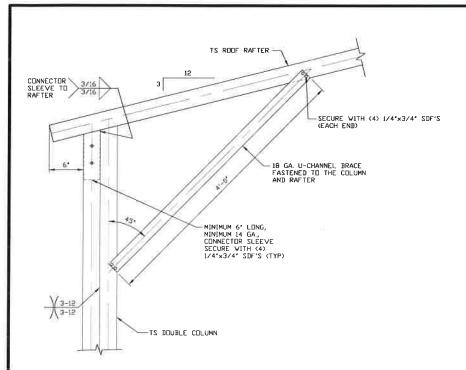
BUX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 16'-0' < TO < 20'-0'

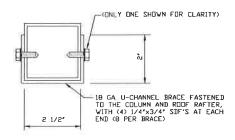
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BRACE SECTION
SCALE: NTS

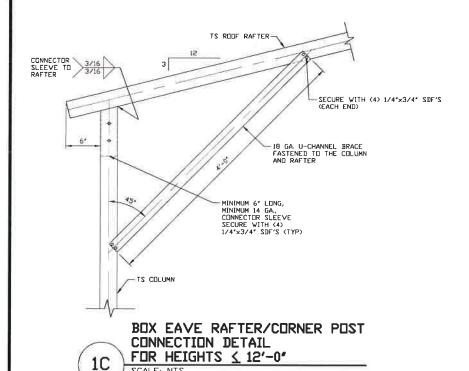
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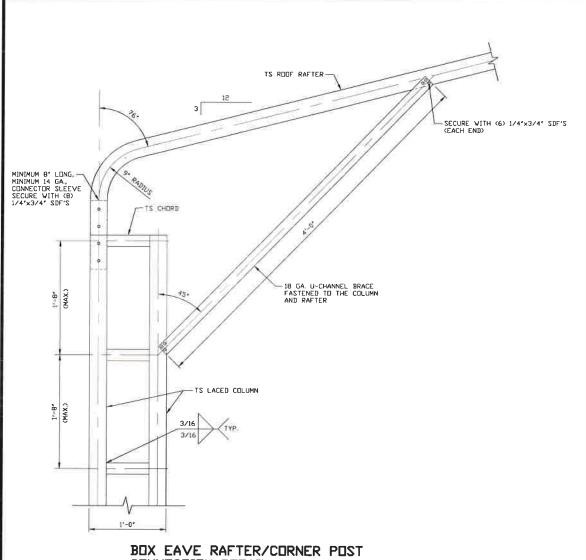
BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0" 1B SCALE: NTS

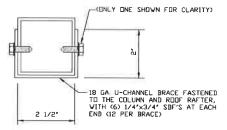


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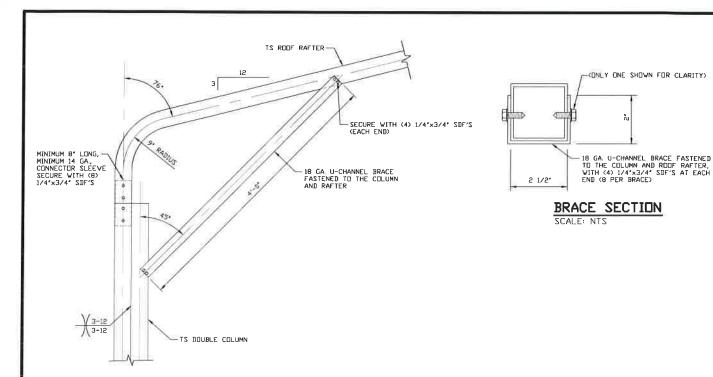


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0' SCALE: NTS



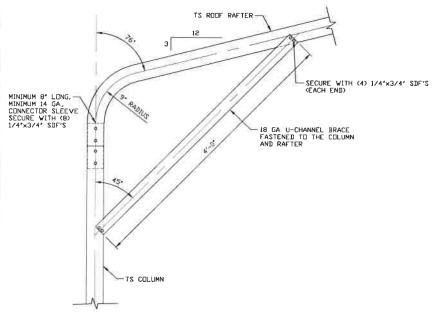
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

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



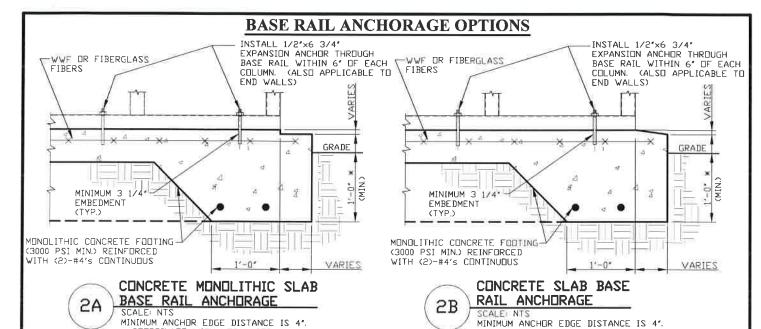
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS & 12'-0'

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	DRAWN BY: AT	STEEL BUL	P.O. BOX 1					



GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SDIL BEARING CAPACITY DF 1,500 PSF

* COURDINATE WITH LOCAL CODES/ORD.

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 1 1/2' ELSEWHERE.

REINFORCING STEEL:

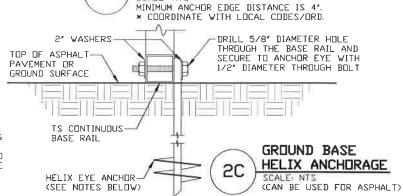
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

- 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:

- 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.
- 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 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.

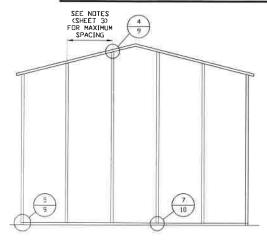


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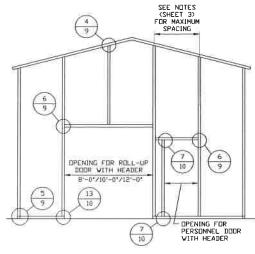
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_	PROJECT MGR: WSM	DATE: 12-14-18	SCALE: NTS	JEE N	180685/ D 181565/182905			
•	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE						
	DRAWN BY: AT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,						

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

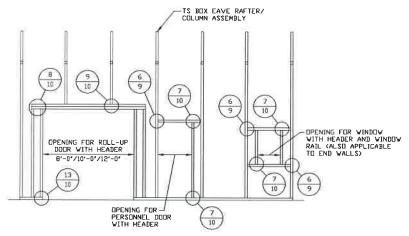
SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

18068\$/ JUB ND 18156\$/18290\$

SCALE: NTS

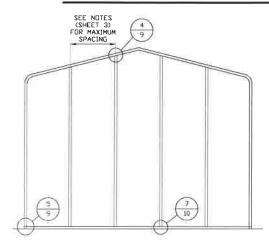


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

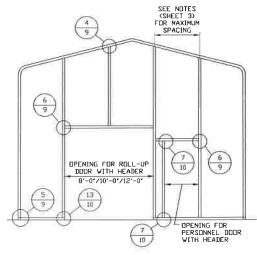
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	DRAWN BY: AT	STEEL BUI	P.O. BOX 1287,				

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



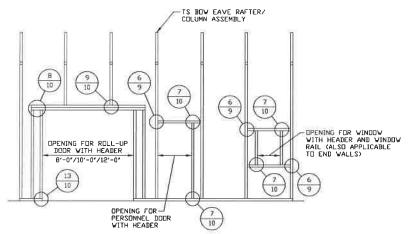
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

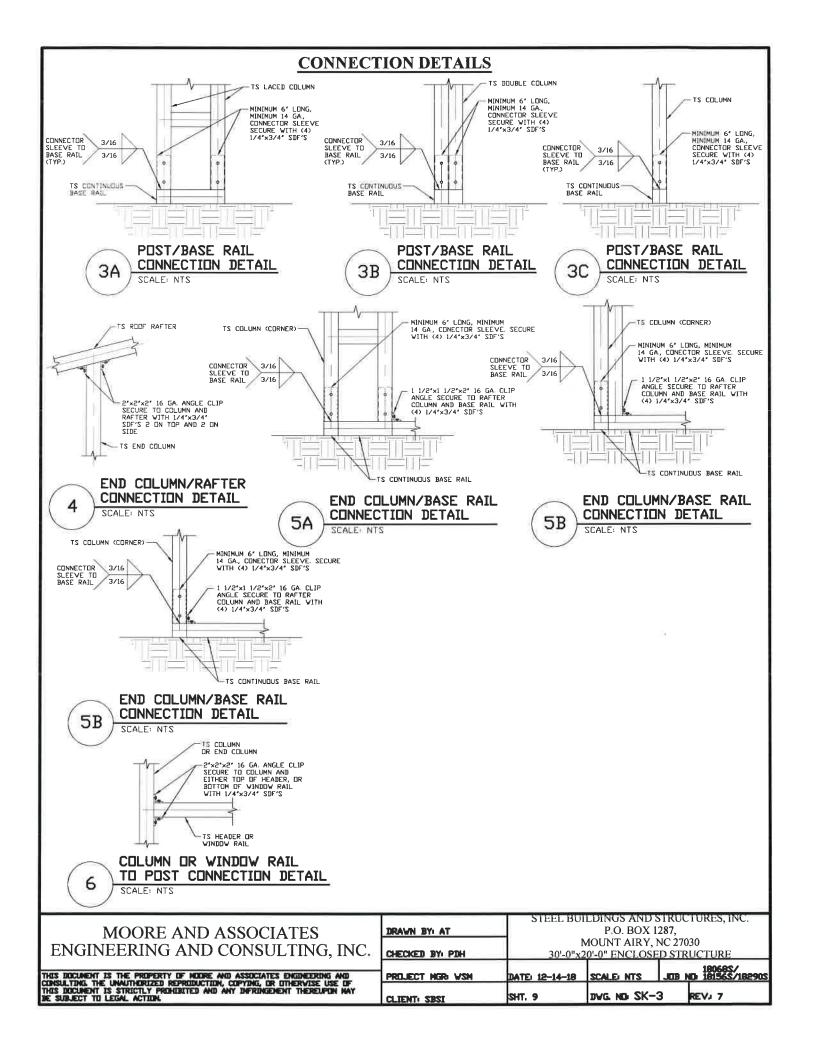
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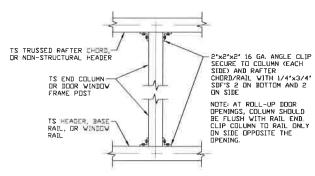
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

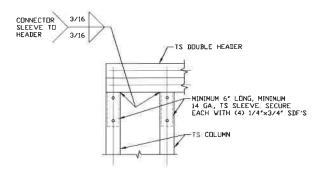
SCALE: NTS

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CONNECTION DETAILS

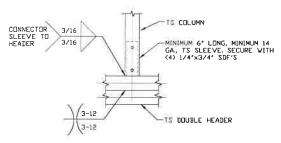


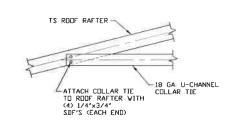


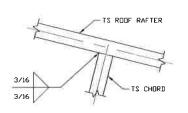
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS

8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



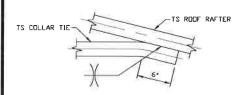


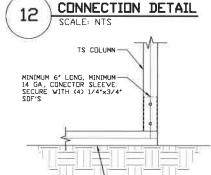


9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



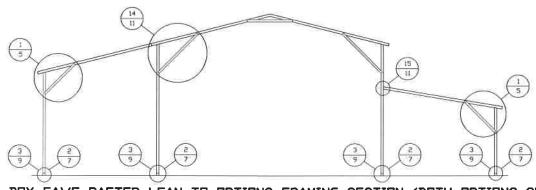


COLLAR TIE

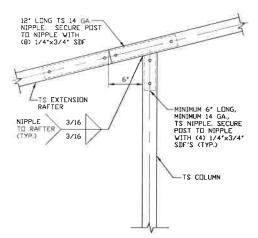
COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

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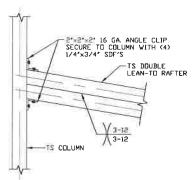
BOX EAVE RAFTER LEAN-TO OPTIONS



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



SIDE EXTENSION RAFTER/ CORNER POST DETAIL SCALE: NTS



15A

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

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

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

> > CLIENT: SBSI

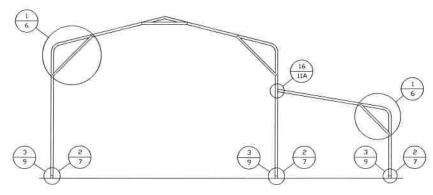
15B

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

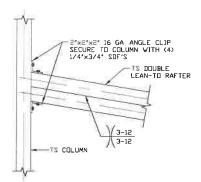
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CLIENT: SRSI	SHT. 11	DVG ND SK-	3	REV. 7			
PROJECT NGR: VSN	DATE: 12-14-18	SCALE: NTS	JOB	18068\$/ 18156\$/18290\$			
CHECKED BY: PDH		MOUNT AIRY, 20'-0" ENCLOSE					
DRAVN BY: AT		P.O. BOX 1	,				

BOW EAVE RAFTER LEAN-TO OPTIONS



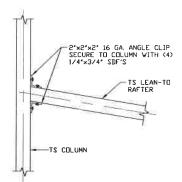
TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION



16A

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS

12'-0' < T□ ≤ 16'-0' SCALE: NTS



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

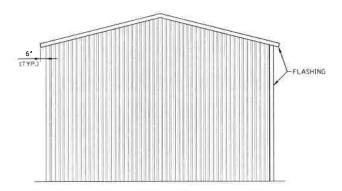
16B

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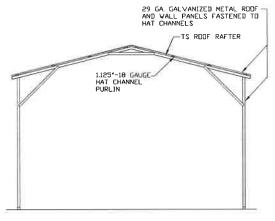
STEEL BUILDINGS AND STRUCTURES, INC. DRAWN BY: AT P.O. BOX 1287, MOUNT AIRY, NC 27030 CHECKED BY: PDH 30'-0"x20'-0" ENCLOSED STRUCTURE JEB ND: 18068\$/ JEB ND: 18156\$/18290\$ PROJECT MGR: VSM DATE: 12-14-18 SCALE: NTS DAC NO 2K-3 SHT. 11A REV. 7 CLIENT: SBSI

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

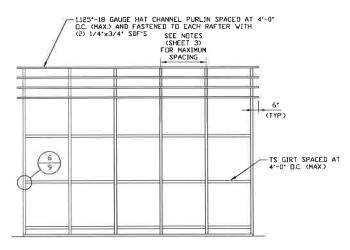


TYPICAL END ELEVATION VERTICAL ROOF/SIDING

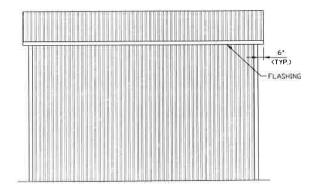
SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

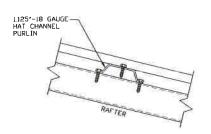


TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

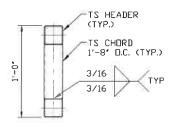
SCALE: NTS



PANEL ATTACHMENT (ALTERNATE FOR VERTICAL ROOF PANELS)

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OPTIONAL HEADER



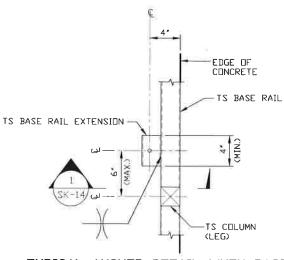
HEADER DETAIL FOR DOOR

OPENINGS 12'-0' < LENGTH < 20'-0'

SCALE: NTS

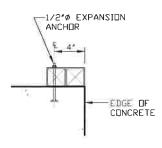
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAVN BY: AT CHECKED BY: PDH	⊣ ,	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
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ADDITIONAL BASE RAIL ANCHORAGE OPTION

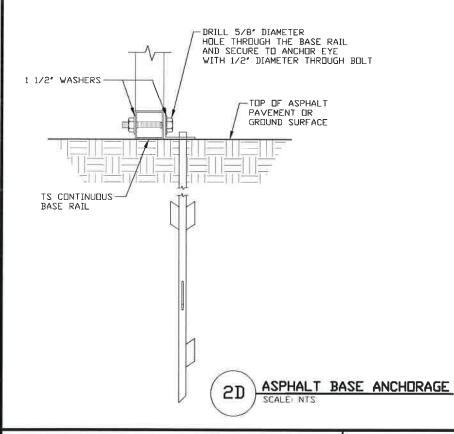


TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

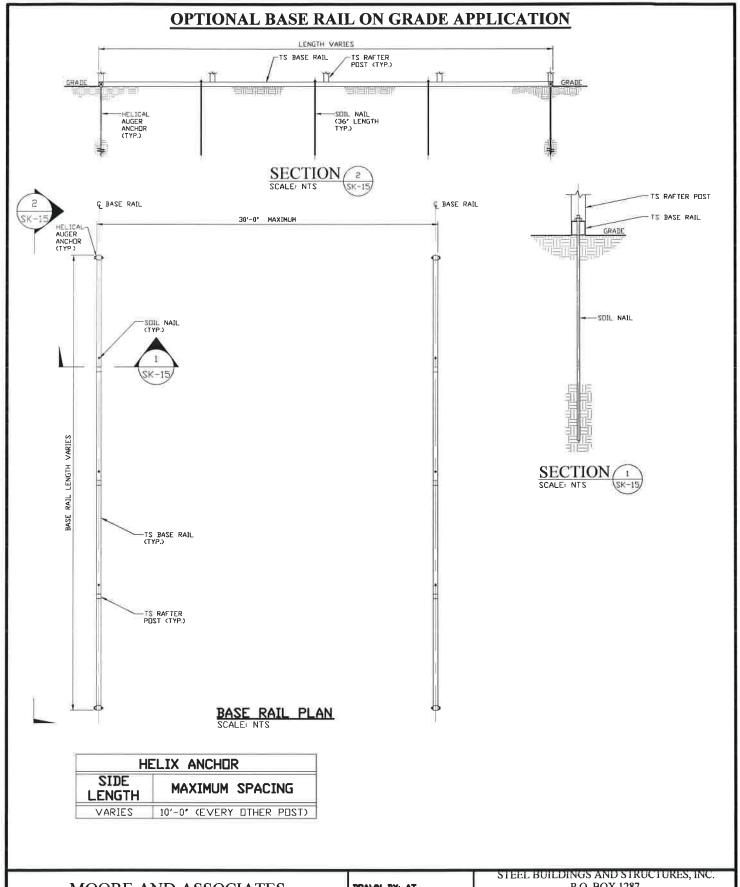
SCALE: NTS



SECTION 1 SCALE: NTS SK-14



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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, N 10'-0" ENCLOSE	DSTR	UCTURE
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