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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

B) LIVE LOAD

= 12 PSF

C) GROUND SNOW LOAD = 30 PSF (\(\) 26'-0'), 35 PSF (26'-0' \(\) \(\) 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 DN-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 SDIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED IN UNSUITABLE SDILS AS NOTED.
- 13 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

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

R= 3.25 Sps= 2.039 $I_{E} = 1.0$

SD1= 1.258

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



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DESIGN PRESSURE (218 PSF, -23.6 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 307-

TYPICAL SIDE ELEVATION

RDLL-UP DOOR

(AS APPLICABLE)
DESIGN PRESSURE
(17.5 PSF, -19.9 PSF)

FLASHING

G'
(TYP.)

30'-0' MAXIMUM RAFTER SPAN (V)

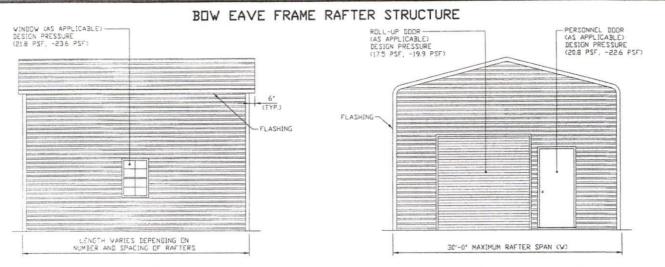
TYPICAL END ELEVATION
SCALE: NTS



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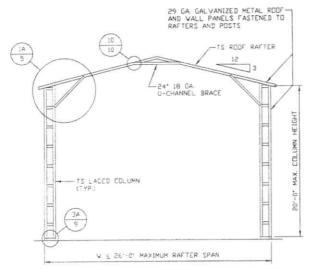
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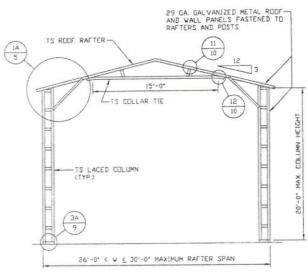
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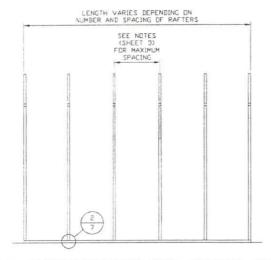
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TYPICAL RAFTER/COLUMN FRAME SECTION



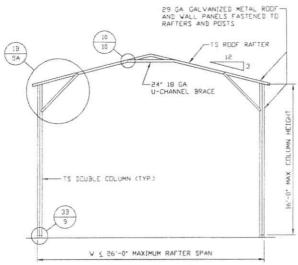
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

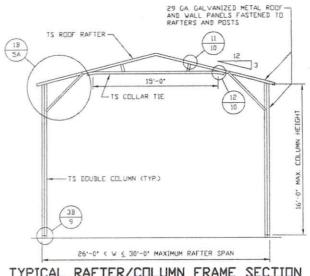


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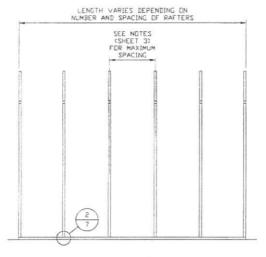


TYPICAL RAFTER/COLUMN FRAME SECTION

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TYPICAL RAFTER/COLUMN FRAME SECTION
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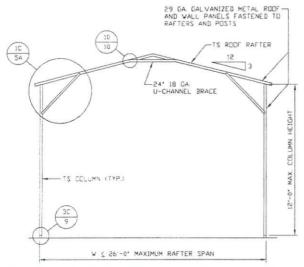


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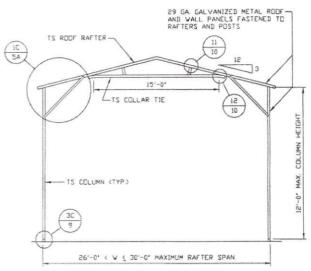
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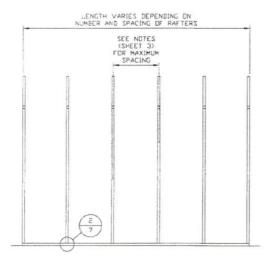
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TYPICAL RAFTER/COLUMN FRAME SECTION



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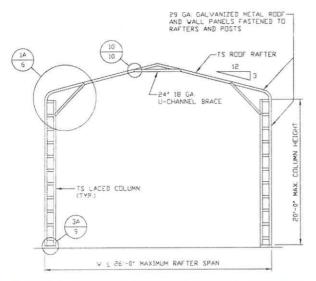
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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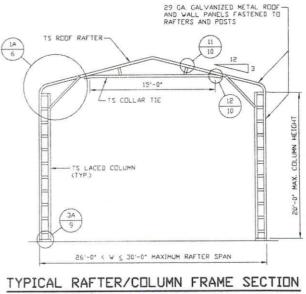
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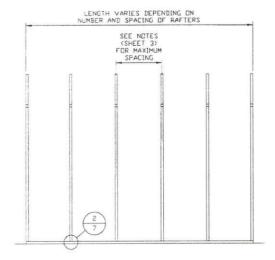


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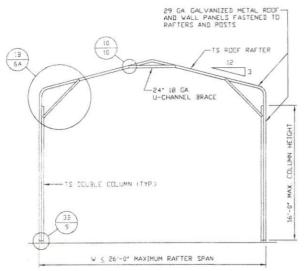


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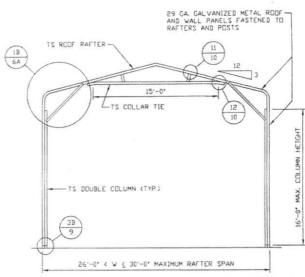
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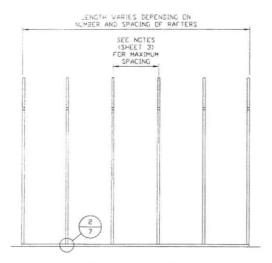
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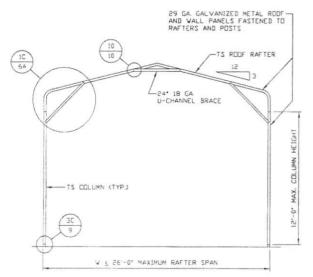
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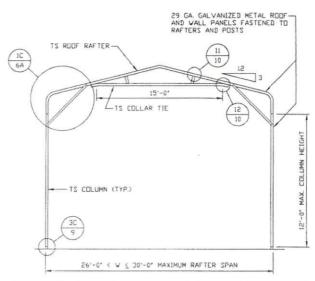
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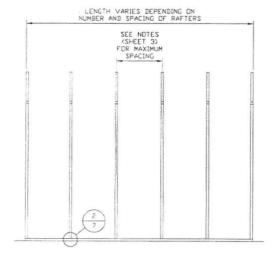
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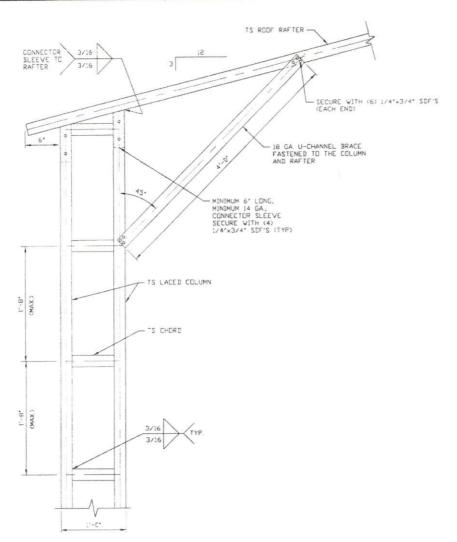
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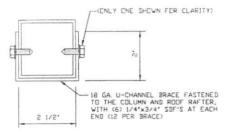
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 16'-0" < TO < 20'-0"



BRACE SECTION

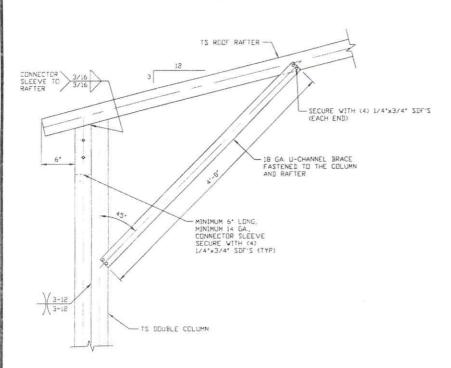


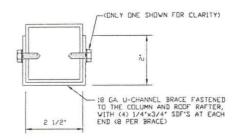
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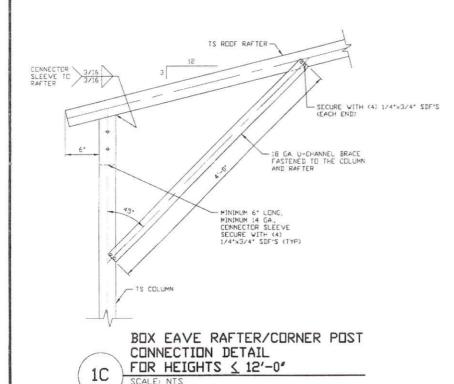




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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 12'-0' < TO < 16'-0'

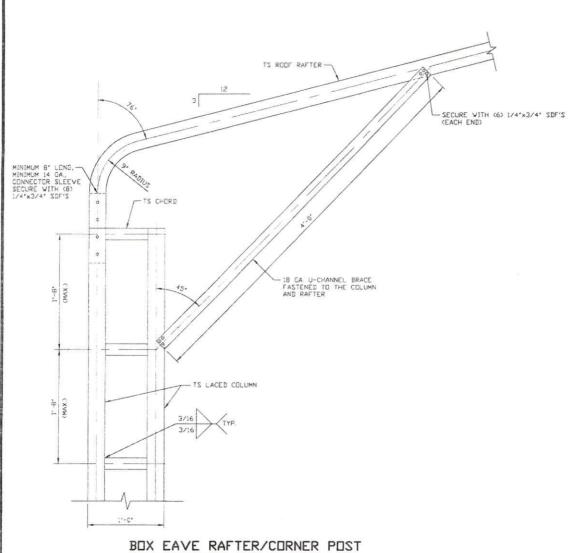




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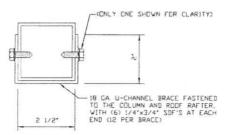
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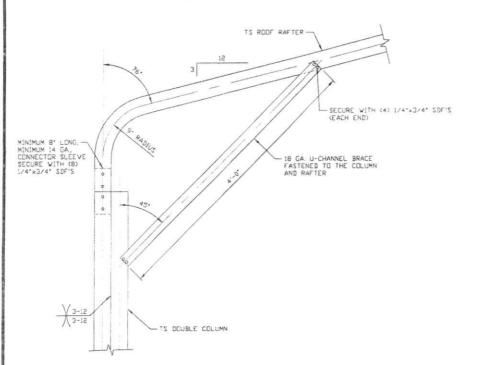
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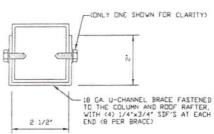


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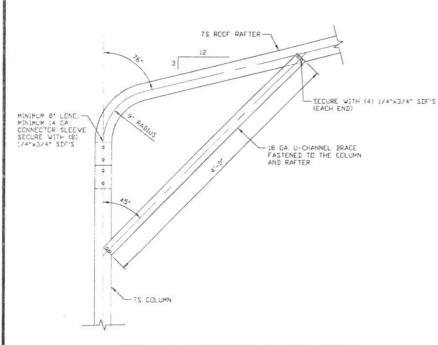




BRACE SECTION

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

SCALE: NTS



SEAL 26784
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS \(\) 12'-0"

SCALE: NTS

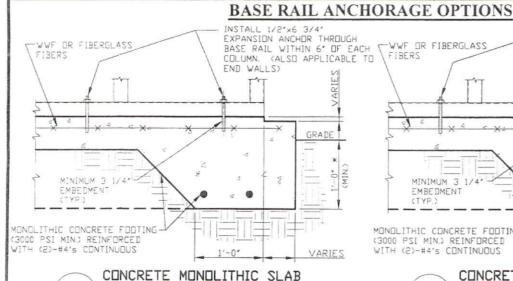
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BASE RAIL ANCHORAGE

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

NCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE RENGTH 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.

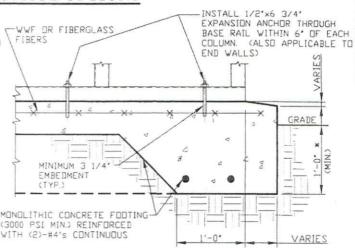
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

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

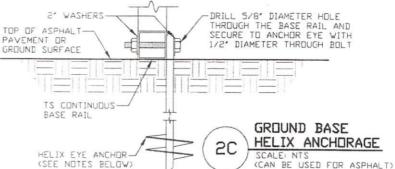
- FOR VERY DENSE AND/OR CEMENTED SANDS, CDARSE GRAVEL AND COBBLES, CALICHE, PRELIDADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 3C' EMBELMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 3 FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 4 FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT.
- 5 FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



CONCRETE SLAB BASE RAIL ANCHORAGE 2B

MINIMUM ANCHOR EDGE DISTANCE IS 4'.

* COORDINATE WITH LOCAL CODES/ORD.

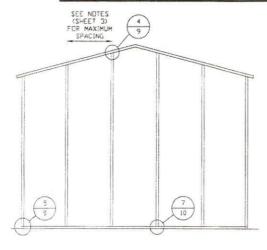


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_	CHECKED BY: PDH PROJECT NGR: VSN	30'-0"x	P.O. BOX 1287 MOUNT AIRY, NC 30'-0"x20'-0" ENCLOSED S DATE: 12-14-18 SCALE: NTS JE			
	CLIENT: SBSI	SHT. 7	DWG. ND SK-	0000	REV. 7	

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

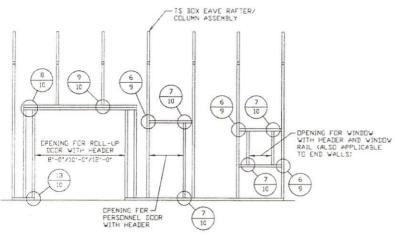
OPENING FOR ROLL-UP
DOGGR WITH HEADER
8'-0'/10'-0'/12'-0'

13
10

OPENING FOR PERSONNEL DOOR
WITH HEADER
WITH HEADER

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

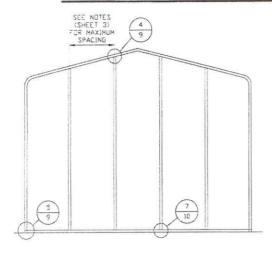


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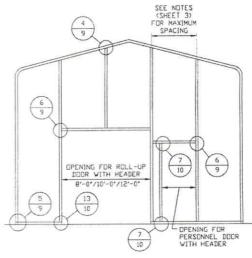
DRAWN BY: AT CHECKED BY: PDH		STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
PROJECT NGR VSN	DATE: 12-14-18	SCALE: NTS	JUB	ND 181565/182905	
CLIENT: SBSI	знт. в	DVG. NO SK-	-3	REV. 7	

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



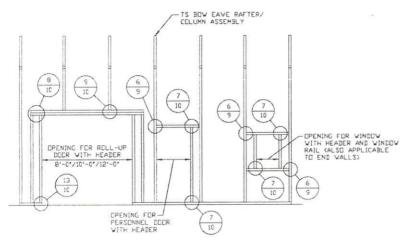
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

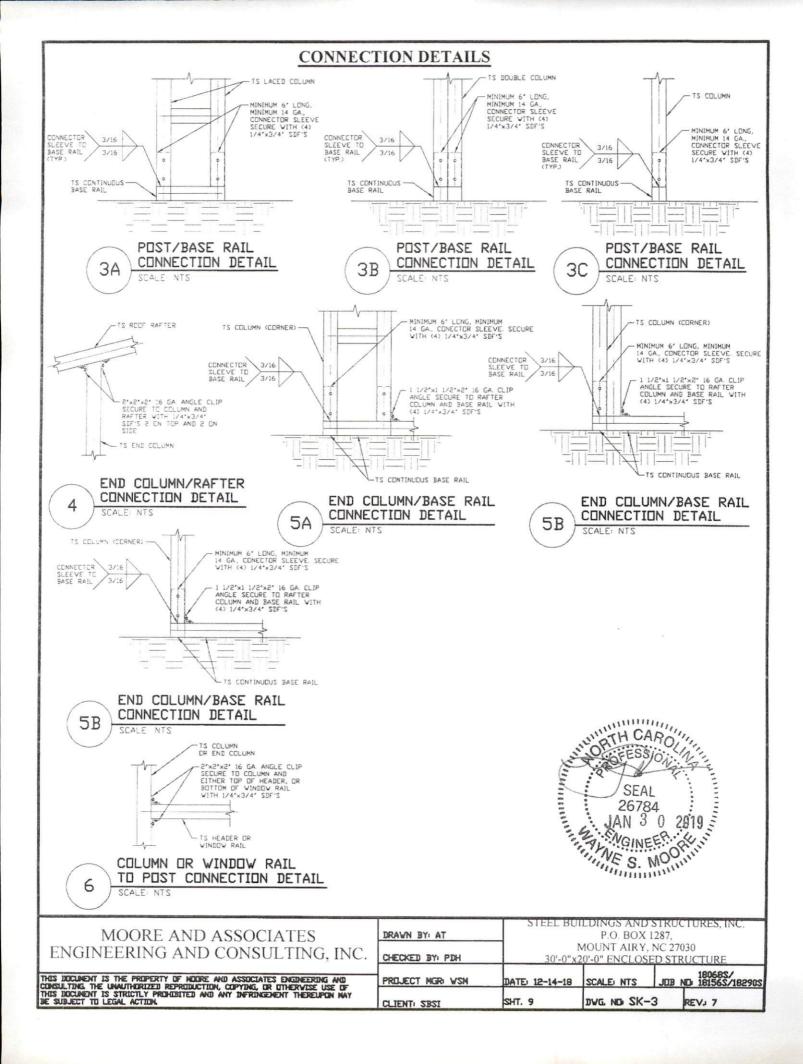


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

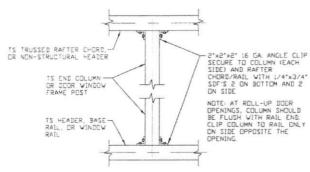
SCALE NTS



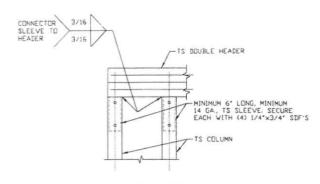
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	M	MOUNT AIRY, 1 0'-0" ENCLOSE		The state of the s
MOORE AND ASSOCIATES	DRAWN BY: AT	P.O. BOX 1287,			



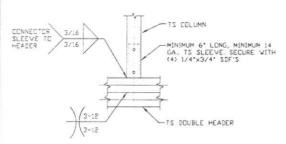
CONNECTION DETAILS



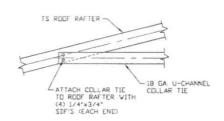
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL



8 DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS

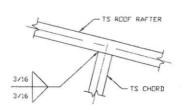


9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

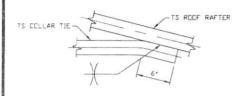


COLLAR TIE
CONNECTION DETAIL

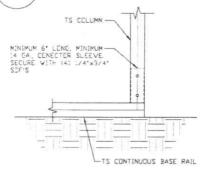
10



RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL



13 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE NTS

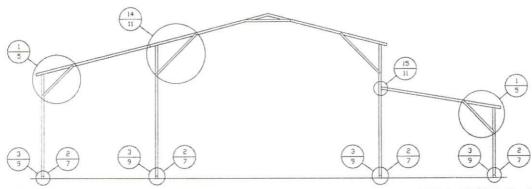


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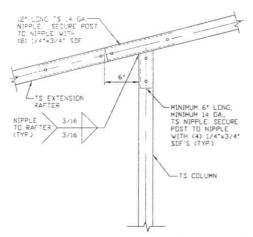
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_	PROJECT MGR: VSM	DATE: 12-14-18	SCALE: NTS	JUB N	18068\$/ © 18156\$/18290\$
	CLIENT: SBSI	SHT. 10	DVG. NO SK-3		REVJ 7

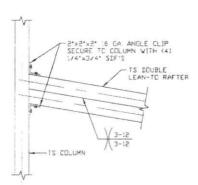
BOX EAVE RAFTER LEAN-TO OPTIONS



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



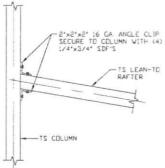
SIDE EXTENSION RAFTER/ CORNER POST DETAIL 14 SCALE: NTS



15A

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS

12'-0" < T□ ≤ 16'-0"



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

CLIENT: SBSI

15B



DWG NO SK-3

REV. 7

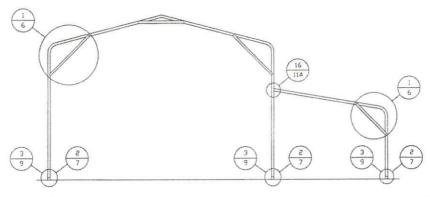
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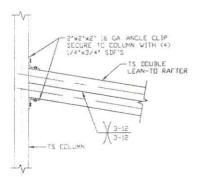
PR	ROJECT MGR: VSM	DATE: 12-14-18	SCALE: NTS	JOB N	18068S/ D: 18156S/18290S
CH-	ECKED BY: PDH	the contraction of	MOUNT AIRY 20'-0" ENCLOS		
DR	RAWN BY: AT		TURES, INC.		

SHT. 11

BOW EAVE RAFTER LEAN-TO OPTIONS

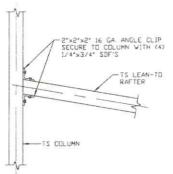


TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION



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

16A SCALE: NTS



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

16B

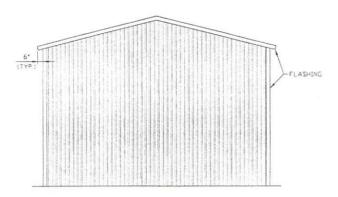


STEEL BUILDINGS AND STRUCTURES, INC.

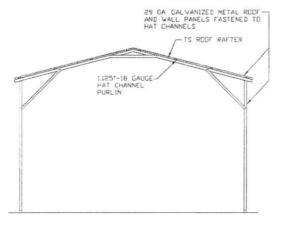
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 PROJECT NGR: VSN	DATE: 12-14-18	SCALE: NTS	JUB	18068S/ ND: 18156S/18290S	
CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCT				
 DRAWN BY: AT	P.O. BOX 1287,				

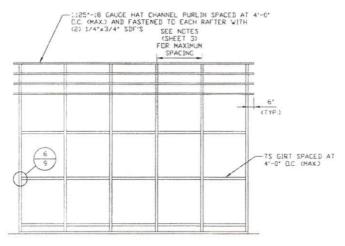
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



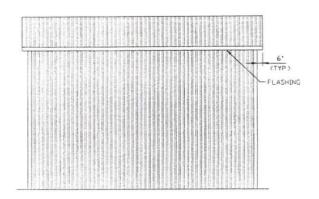
TYPICAL END ELEVATION VERTICAL ROOF/SIDING



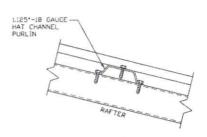
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING



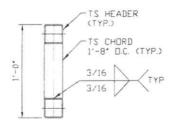
PANEL ATTACHMENT (ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS



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OPTIONAL HEADER



HEADER DETAIL FOR DOOR

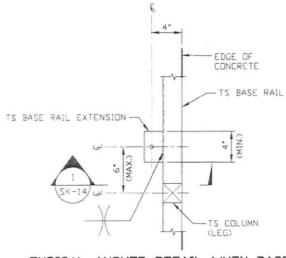
OPENINGS 12'-0' < LENGTH < 20'-0"

SCALE: NTS

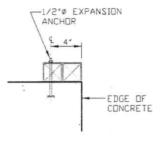


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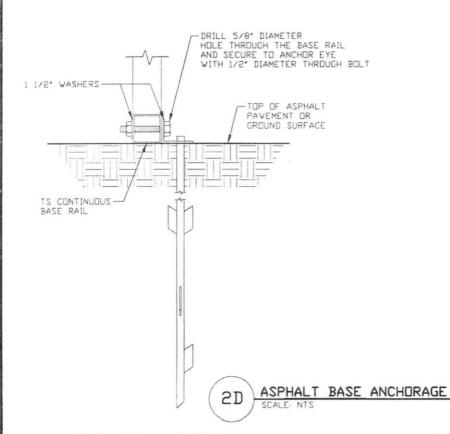
ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



SECTION 1 SCALE: NTS SK-14





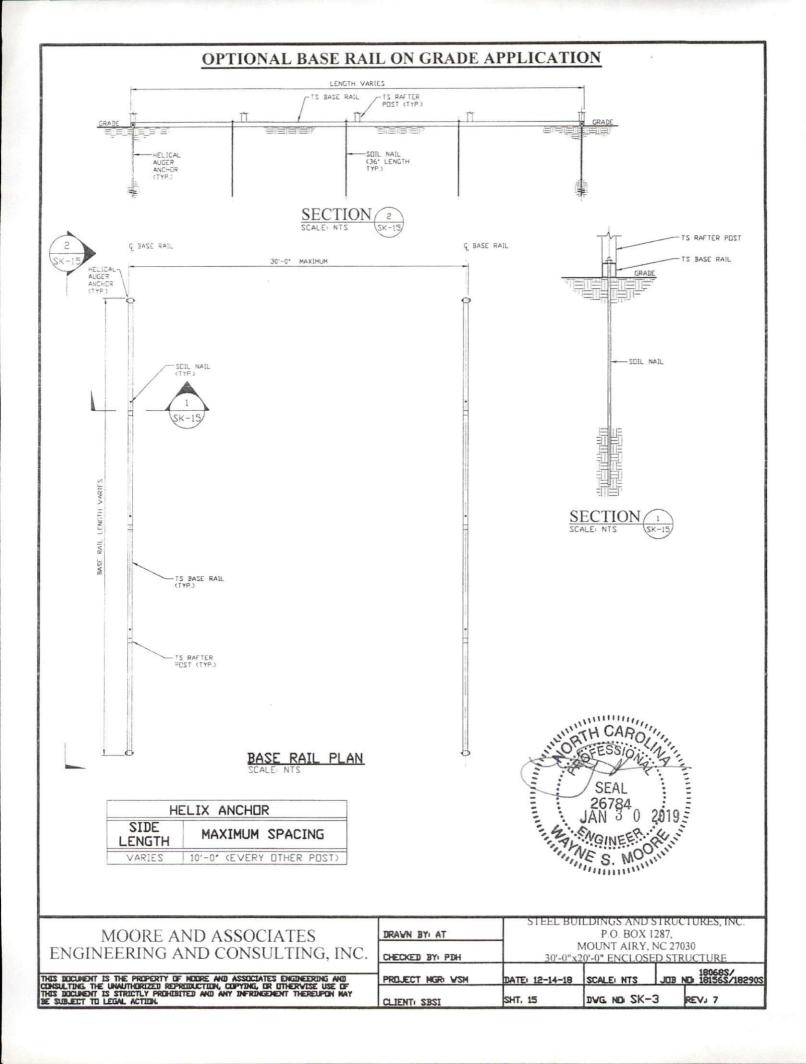
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ENGINEERING AND CONSULTING, INC	C.

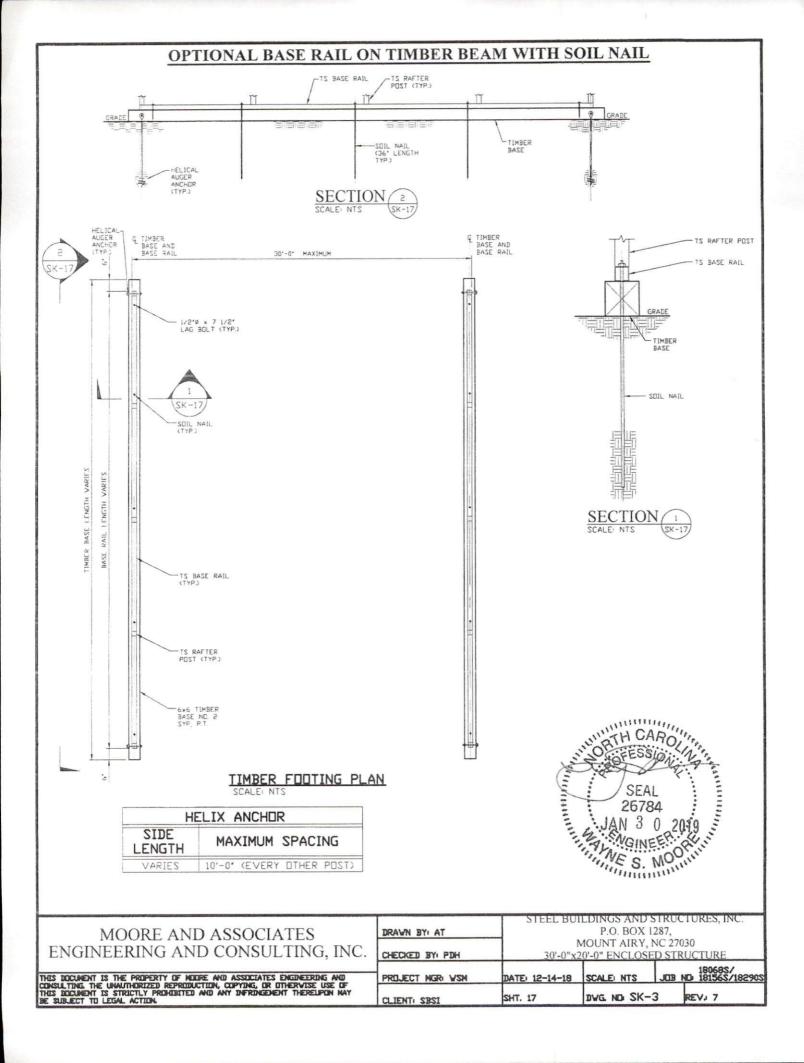
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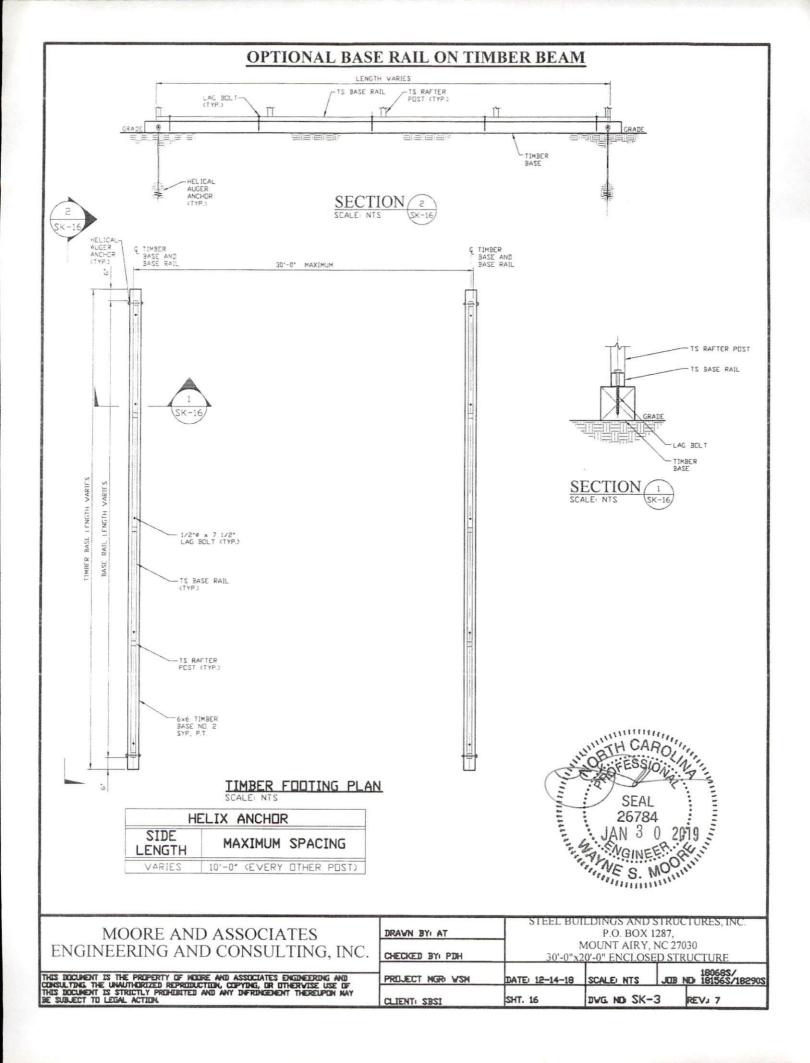
PROJECT MG	R: WSM	DATE: 12-14-18	SCALE: NTS	JUB ND 180685/ JUB ND 181565/182905			
CHECKED BY	PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
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CLIENT: SBSI SHT. 14 DVG. ND: SK-3 REV. 7







OPTIONAL CONCRETE STRIP FOOTING F FDOTING AND BASE RAIL 30'-0' MAXIMUM VARIES LENGTH RAIL TS BASE RAIL CONCRETE STRIP FOOTING (3000 PSI MIN.) CONCRETE STRIP FOOTING PLAN SCALE: NTS TS RAFTER PEST TS BASE RAIL SEAL 26784 JAN 3 0 2019 VGINEE OFF -INSTALL 1/2'x6 3/4' EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN. MINIMUM 3 1/4' EMBEDMENT (TYP.) CLR SECTION 1 SK-18 * CODRDINATE WITH LOCAL CODES/ORD. STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, DRAWN BY AT MOORE AND ASSOCIATES MOUNT AIRY, NC 27030 ENGINEERING AND CONSULTING, INC. CHECKED BY: PDH 30'-0"x20'-0" ENCLOSED STRUCTURE THIS DOCUMENT IS THE PROPERTY OF MOURE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNANTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. PROJECT MGR WSM DATE: 12-14-18 SCALE: NTS SHT. 18 DWG. ND SK-3 REV. 7 CLIENT: SBSI