

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'- 0" WIDE X 16'- 0" HEIGHT-BOX EAVE FRAME AND BOW FRAME

9 August 2019 Revision 0 M&A Project No. 19157S

Prepared for:

Southeastern Building Products 714 Warsaw Rd. Clinton, NC 28328

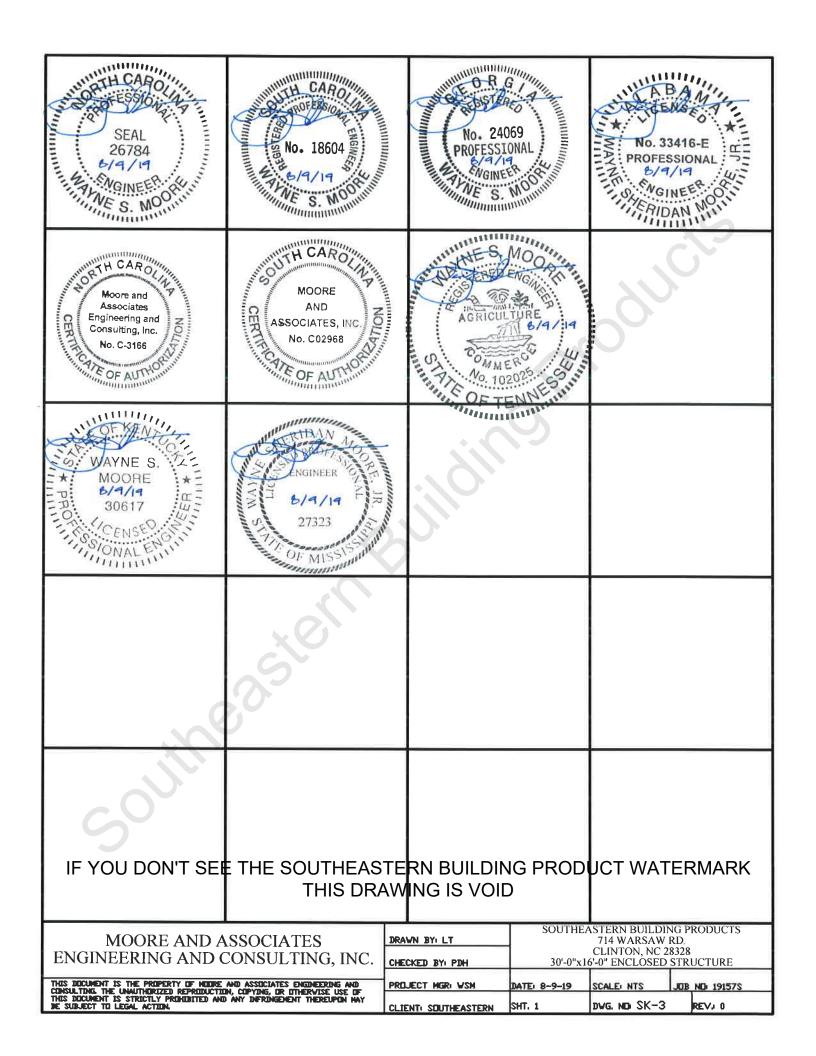
Prepared by:

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1009 East Avenue North Augusta, SC 29841

401 S. Main Street, Suite 200 Mount Airy, NC 27030





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INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0' WIDE x 16'-0' EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (NCBC), 2012 INTERNATIONAL BUILDING CODE (IBC), AND 2015 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS A) DEAD LOAD = 15 PSF
 - A) DEAD CUAD = 15 PSF

 B) LIVE LOAD = 12 PSF

 C) GROUND SNOW LOAD = 25 PSF
 - NOTE: UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED
- 4 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = 145 MPH (NOMINAL WIND SPEED = 112 MPH).
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
- 7 RISK CATEGORY I.
- 8 WIND EXPOSURE CATEGORY B/C
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2" x 3" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° OC (MAX)
- LI FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS

 SPECIFICATIONS APPLICABLE DNLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (312 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY ONLY BE USED IN SUITABLE SOIL CONDITIONS OPTIONAL ANCHORAGE MAY BE 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

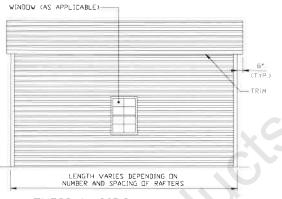
R = 3 | 25 $I_E = 10$ $V = C_S W$

S_{DI}= 1258 g

IF YOU DON'T SEE THE SOUTHEASTERN BUILDING PRODUCT WATERMARK THIS DRAWING IS VOID

SOUTHEASTERN BUILDING PRODUCTS MOORE AND ASSOCIATES DRAWN BY: LT 714 WARSAW RD. CLINTON, NC 28328 ENGINEERING AND CONSULTING, INC. 30'-0"x16'-0" ENCLÓSED STRUCTURE CHECKED BY PDH THIS DOCUMENT IS THE PROPERTY OF MOURE 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. PREJECT MGR: WSM DATE: 8-9-19 JUB NO 19157S SCALE: NTS DWG. ND SK-3 REV. 0 CLIENT: SOUTHEASTERN

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TYPICAL END ELEVATION

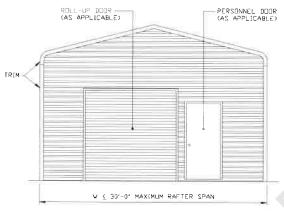
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TYPICAL SIDE ELEVATION

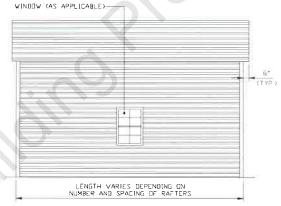
SCALE NTS

BOW FRAME RAFTER STRUCTURE

BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION SCALE NTS

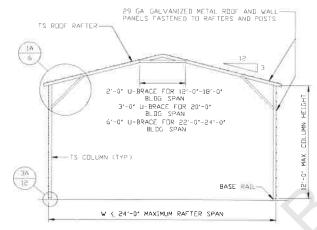


TYPICAL SIDE ELEVATION

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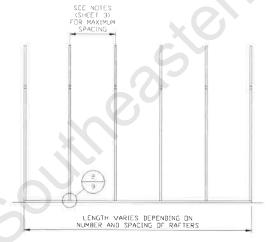
TYPICAL RAFTER/COLUMN END FRAME SECTION

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TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



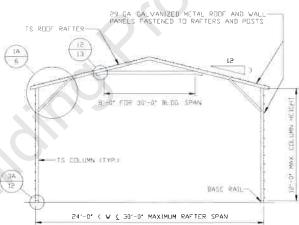
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

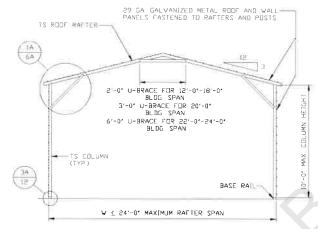
SCALE NTS

29 GA GALVANIZED METAL ROOF AND VALL PANELS FASTENED TO RAFTERS AND POSTS 15 ROOF RAFTER 2'-0' U-BRACE FOR 12'-0'-18'-0' BLDG SPAN 3'-0' U-BRACE FOR 20'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN 15 DOUBLE COLUMN (TYP) BASE RAIL 9

TYPICAL RAFTER/COLUMN END FRAME SECTION

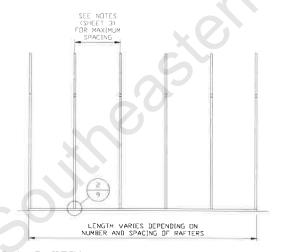
¥ < 24'-0" MAXIMUM RAFTER SPAN

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

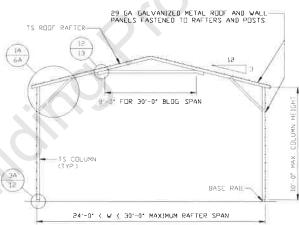
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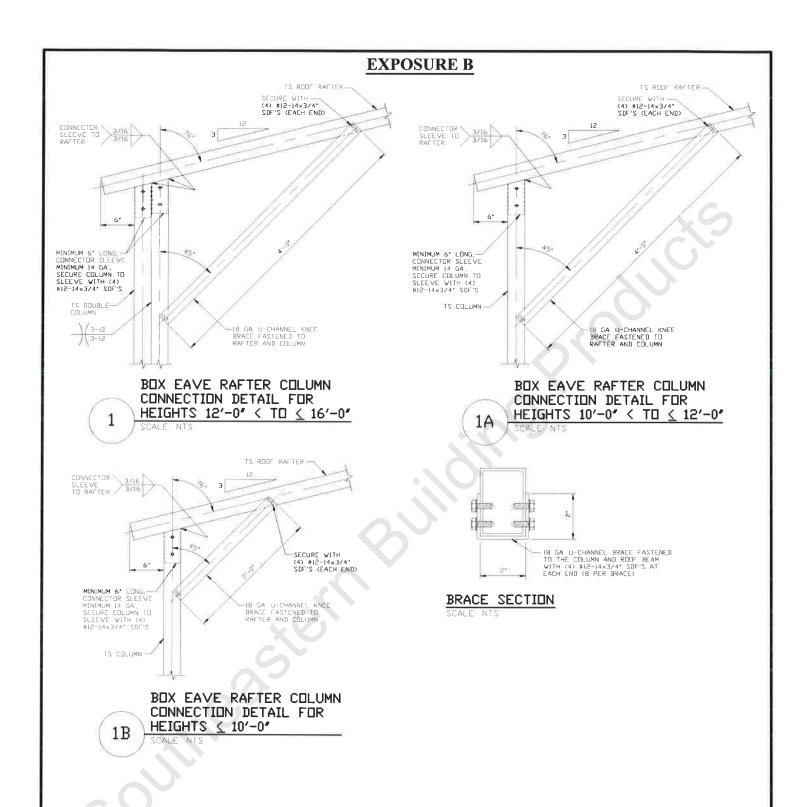
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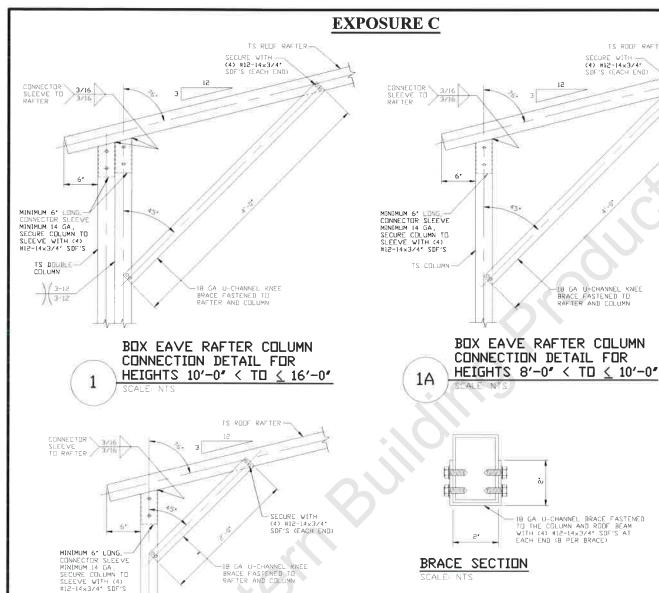


TYPICAL RAFTER/COLUMN END FRAME SECTION

SCHEE! INT.



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IS ROOF RAFTER

CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0" 1B

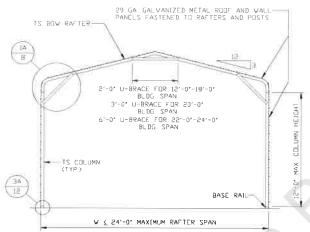
BOX EAVE RAFTER COLUMN

TS COLUMN:

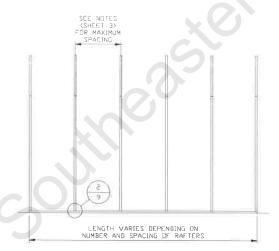
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EXPOSURE B 29 GA GALVANIZED METAL RODF AND WALL PANELS FASTENED TO RAFTERS AND POSTS TS BOW RAFTER 1 2'-0' U-BRACE FOR 12'-0'-18'-0' BLDG SPAN 3'-0' U-BRACE FOR 20'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN TS DOUBLE COLUMN MAX (3) 16'-0" BASE RAIL ₩ < 24'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



COLUMN TS DOUBLE COLUMN MAX 12 16'-0"

8'-0' FOR 30'-0' BLDG SPAN

29 GA GALVANIZED METAL ROOF AND WALE PANELS FASTENED TO RAFTERS AND POSTS

BASE RAIL

HE1GHT

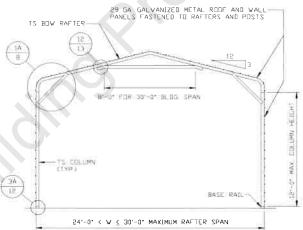
JRE 91575 0

TYPICAL RAFTER/COLUMN END FRAME SECTION

24'-0" < W < 30'-0" MAXIMUM RAFTER SPAN

TS BOW DACTED-

12



TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

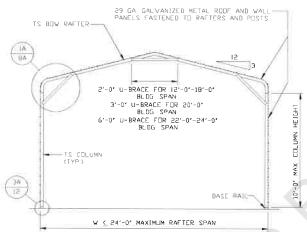
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29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS 2'-0' U-BRACE FOR 12'-0'-18'-0' BLOG SPAN 3'-0' U-BRACE FOR 20'-0' BLOG SPAN 6'-0' U-RACE FOR 22'-0'-24'-0' BLOG SPAN TS BOUBLE COLUMN WY \$ 24'-0' MAXIMUM RAFTER SPAN

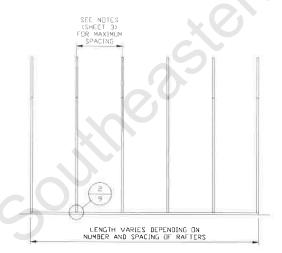
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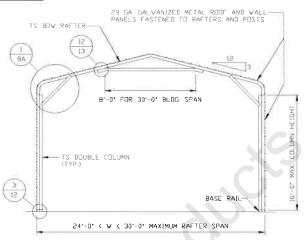


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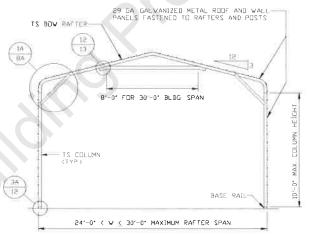


EXPOSURE C



TYPICAL RAFTER/COLUMN END FRAME SECTION

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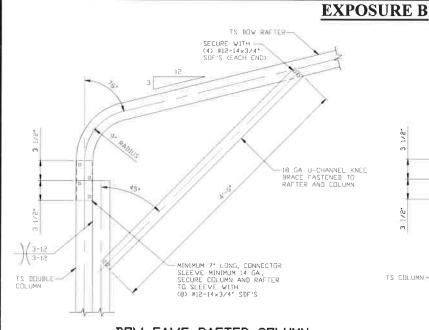
TYPICAL RAFTER/COLUMN END FRAME SECTION

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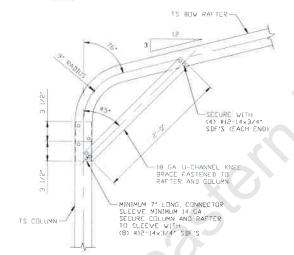
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BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0' SCALE NTS



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0'

TS BOV RAFTER

SECURE WITH

(4) HI2-14×3/4'
SDF'S (EACH END)

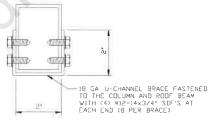
12

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

MINIMUM 7' LONG, CONNECTOR
SLEEVE MINIMUM 14 GA,
SECURE COLUMN AND RAFTER
TIT SLEEVE WITH

(8) HI2-14×3/4' SDF'S

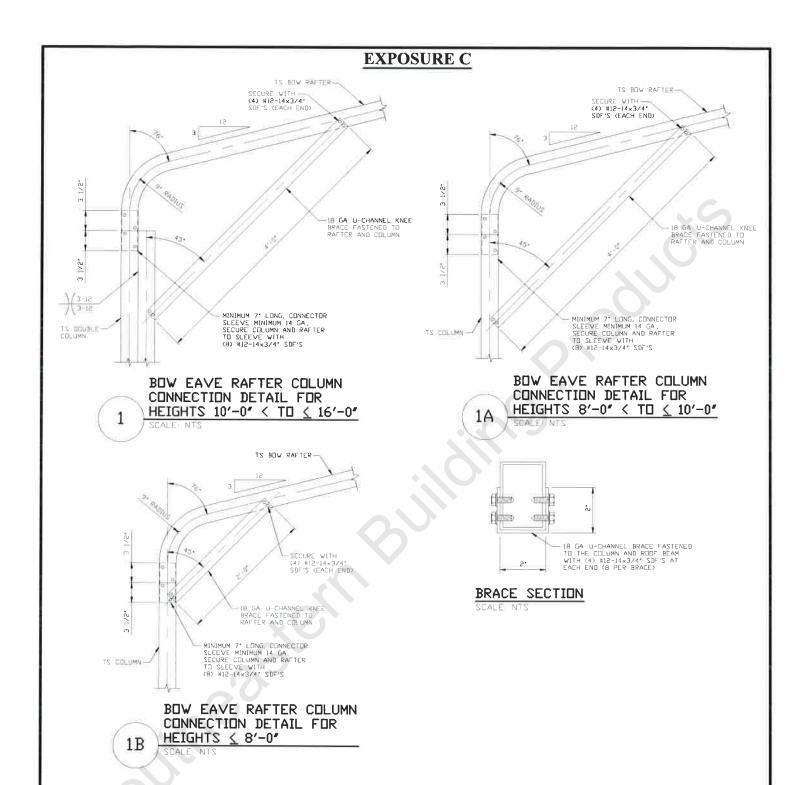
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO \(\) 12'-0'



BRACE SECTION

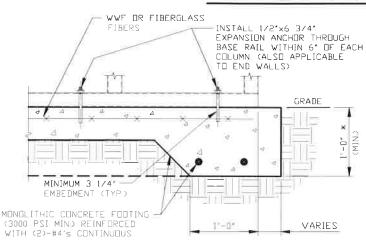
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BASE RAIL ANCHORAGE OPTIONS





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4" * COURDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH

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 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:

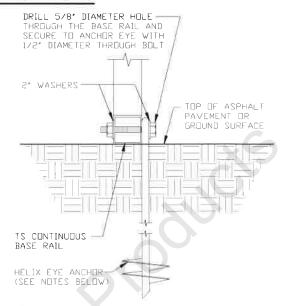
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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

- 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

- 1 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 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.





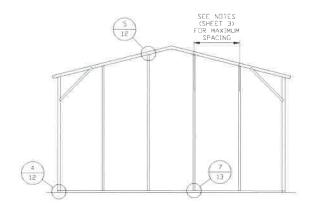
GROUND BASE HELIX ANCHORAGE

2 IM. CAN BE USED FOR ASPHALT

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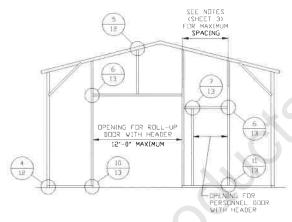
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



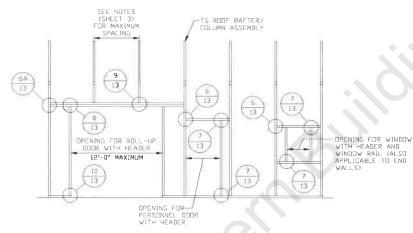
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

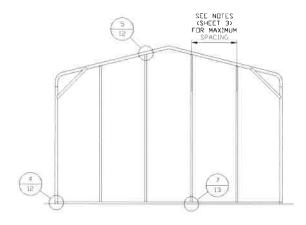


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

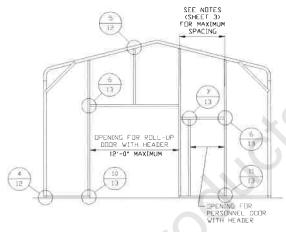
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



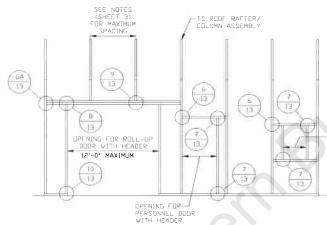
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



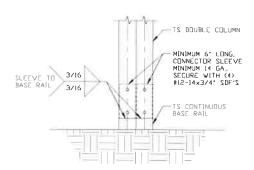
OPENING FOR WINDOW WITH HEADER AND WINDOW RAIL (ALSO APPLICABLE TO END WALLS)

TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

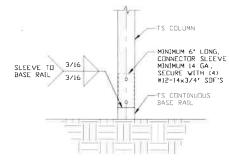
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CONNECTION DETAILS



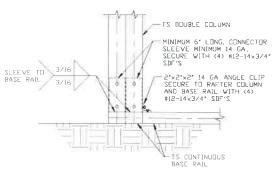
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE NTS

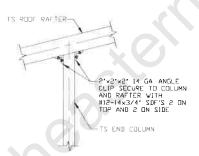


RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

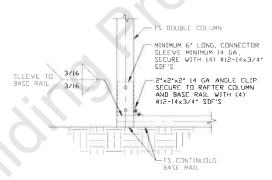
SCALE: NTS







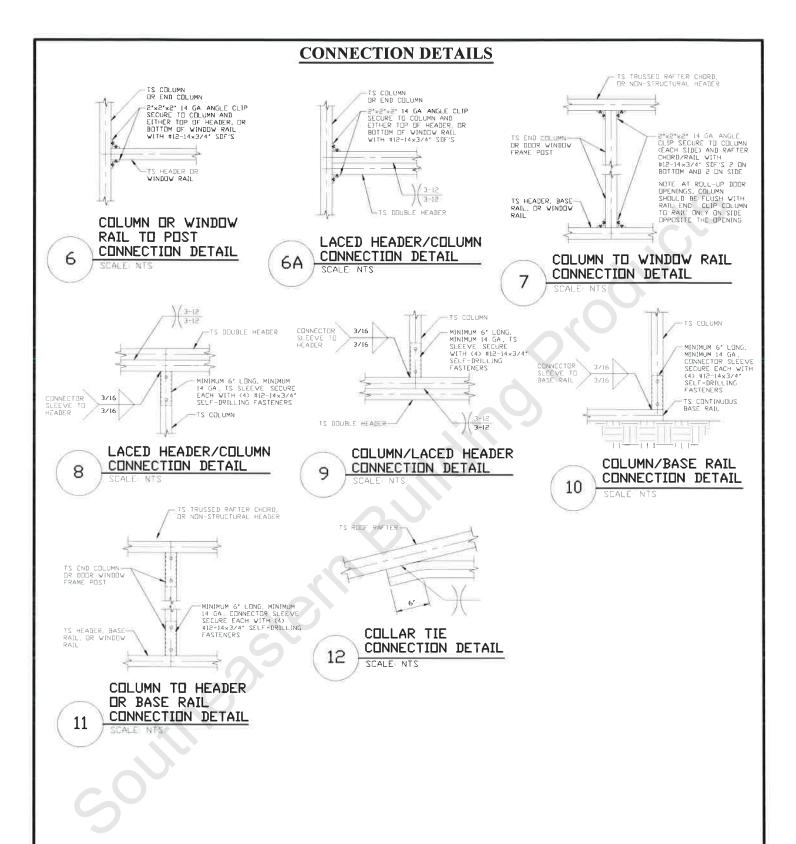




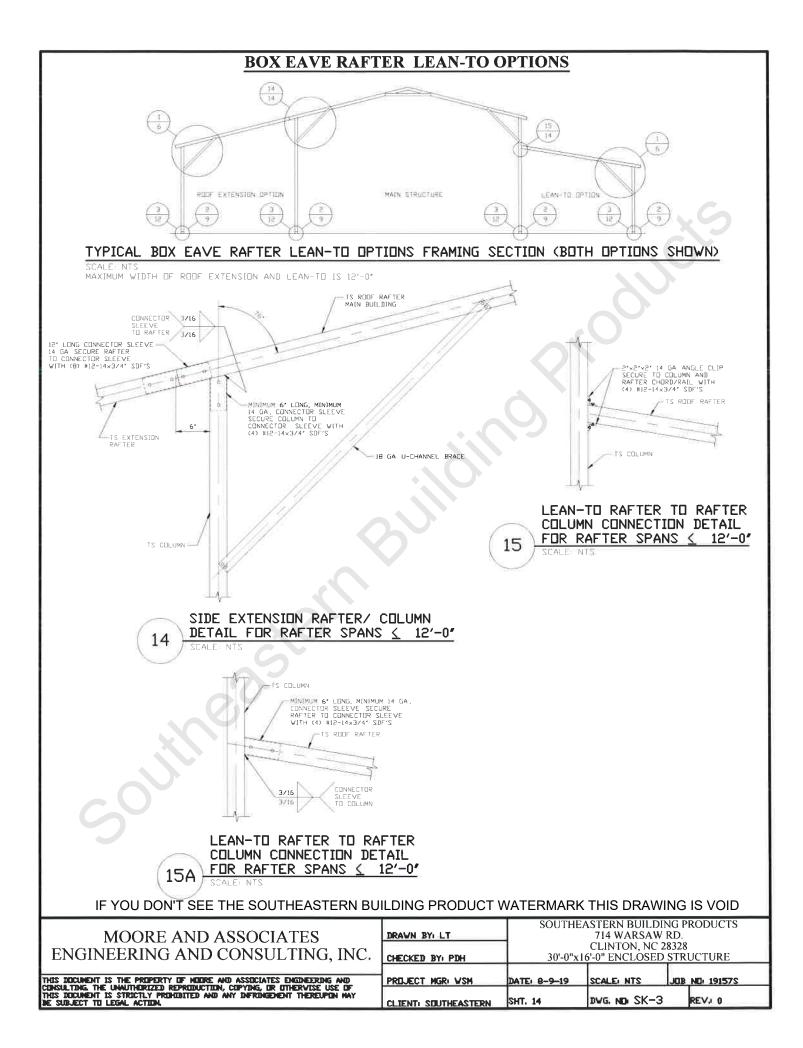
4A CONNECTION DETAIL

SCALE: NTS

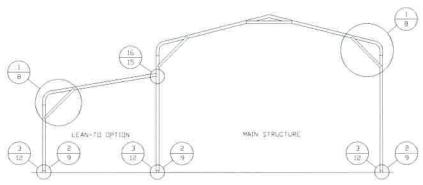
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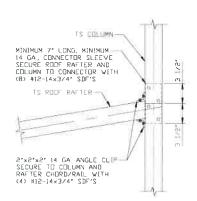
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BOW EAVE RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12'-0"

16

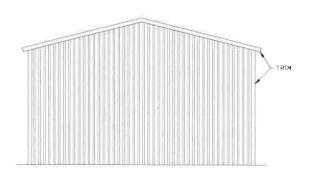
MINIMUM 7' LONG, MINIMUM— 14 GA, CONNECTOR SLEEVE SECURE ROOF RAFTER AND COLLUMN TO CONNECTOR WITH (8) #12-14x3/4' SDF'S TS ROOF RAFTER MINIMUM 6' LONG, MINIMUM— 14 GA, CONNECTOR SLEEVE SECURE RAFTER TO CONNECTOR SLEEVE WITH (4) #12-14×3/4' SDF'S CONNECTOR SLEEVE TO COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 12'-0"

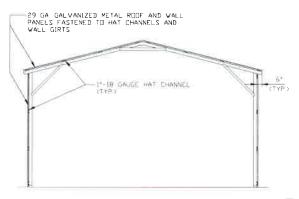
16A

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l		SOUTHER	ISTERN BUILDII		

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING

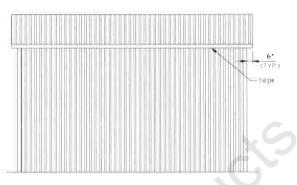


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

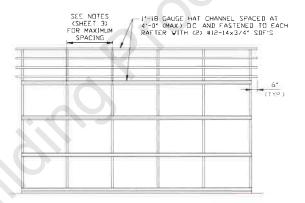


ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANÉLS) SCALE NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

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