STRUCTURAL DESIGN

ENCLOSED BUILDING

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

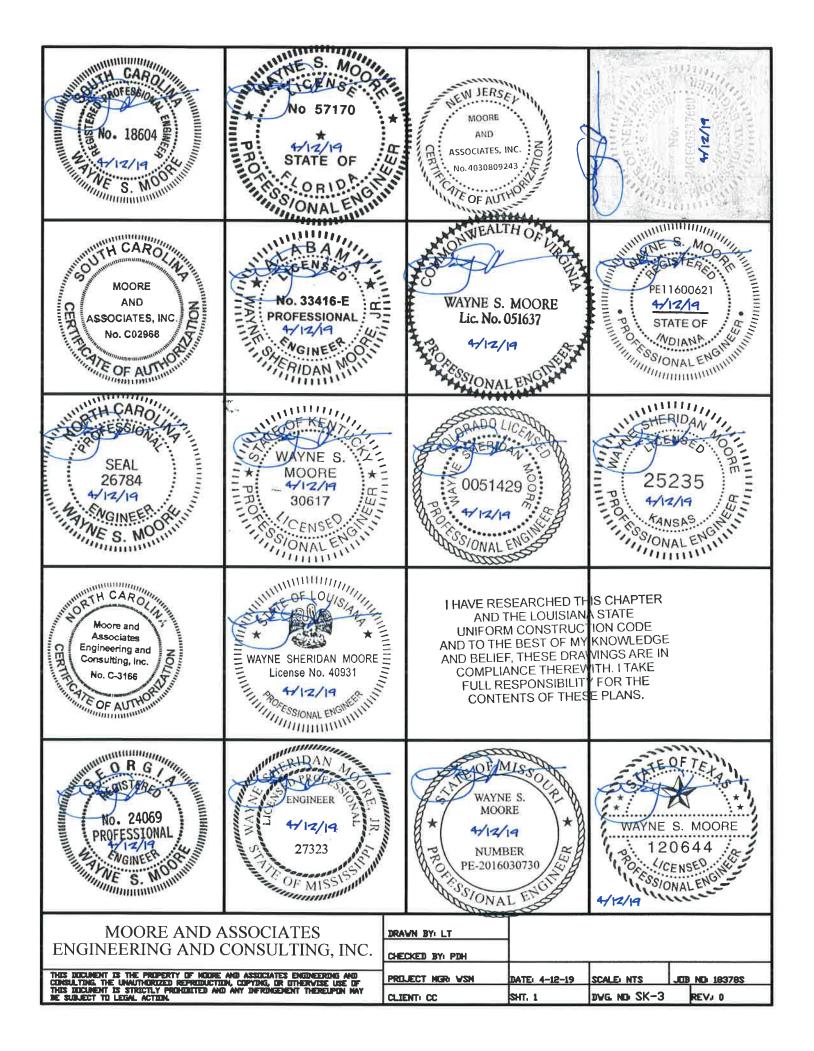
12 April 2019 Revision 0 M&A Project No. 18378S

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841





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 2018 NORTH CARDLINA BUILDING CODE, 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 INTERNATIONAL BUIDLING CODE (IBC), 2006 IBC, 2009 IBC, 2012 IBC, 2015 IBC, AND 2018 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

= 12 PSF

C) GROUND SNOW LOAD = 33 PSF AT 5'-0' D.C. SPACING

= 42 PSF AT 4'-0" D.C. SPACING.

30 PSF (WITH U-CHANNEL PEAK BRACE) W & 26'-0" (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)

4 ULTIMATE WIND SPEED 105 TO 143 MPH (NOMINAL WIND SPEED 82 TO 110 MPH).

MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET

- 5. ULTIMATE WIND SPEED 144 TO 155 MPH (NOMINAL WIND SPEED 111 TO 120 MPH). MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET
- 6 END WALL COLUMNS (POSTS) ARE SIMILAR TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE.
- 7. LOW HAZARD RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" x 2 1/4" 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) = 8 INCHES.
- 11. FASTENERS CONSIST OF #12-14×3/4" (UNLESS OTHERWISE NOTED) 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.
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN
- 13. STANDARD GROUND ANCHORS (SDIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG. SDIL NAILS MAY BE USED FOR MAXIMUM WIND V = 145 MPH AND IN SUITABLE SDIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED FOR WIND V > 145 MPH AND/OR IN UNSUITABLE SDILS AS NOTED.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D

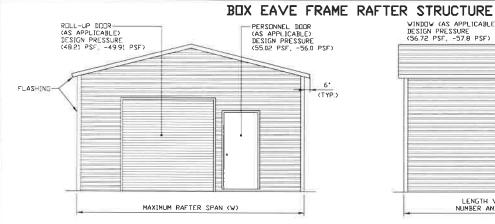
RISK CATEGORY I/II/III

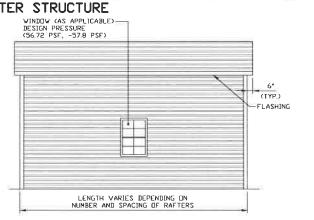
I_E= 1.0 R = 3.25 $V = C_S W$

 $S_{DS} = 8.039$ g S_{D1}= 1.258 g

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

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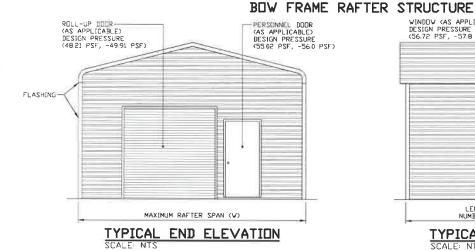


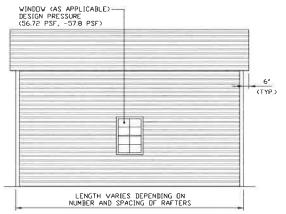
TYPICAL END ELEVATION-HORIZONTAL ROOF

TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

SCALE: NTS

SCALE: NTS



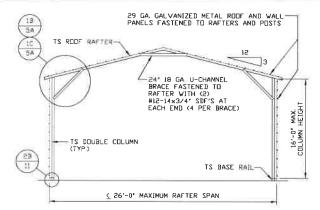


TYPICAL END ELEVATION SCALE: NTS

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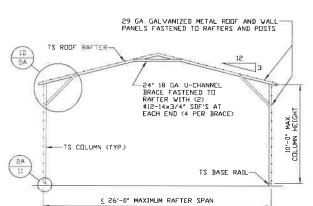
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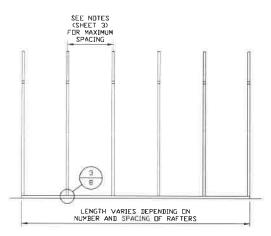
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



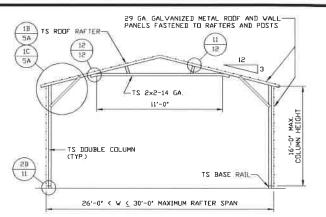
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



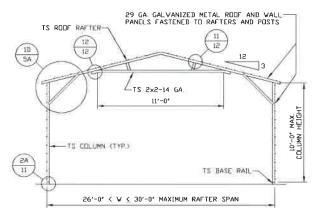
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

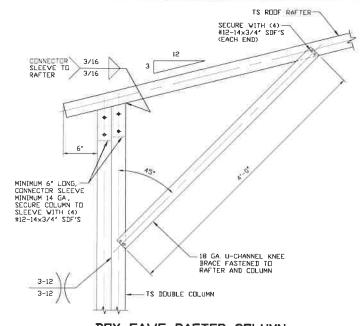
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TYPICAL RAFTER/COLUMN END FRAME SECTION

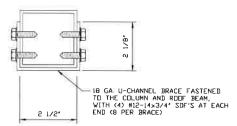
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BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0' SCALE: NTS

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



BRACE SECTION

SCALE: NTS

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TS ROOF RAFTER =

SECURE WITH (4) #12-14x3/4° SDF'S (EACH END)

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

TS DOUBLE COLUMN

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"

CONNECTOR 3/16
SLEEVE TO 3/16
RAFTER

MINIMUM 6' LONG,— CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (4) #12-14x3/4' SDF'S

3-12

3-12

1C

BASE RAIL ANCHORAGE OPTIONS INSTALL 1/2*x6 1/2* EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' OF WWF OR FIBERGLASS FIBERS REINF EACH COLUMN VAR GRADE (MIM) MINIMUM 3 1/4*-EMBEDMENT (TYP.) MONOLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS 1'-0" VARIES

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE 3A

> 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 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:

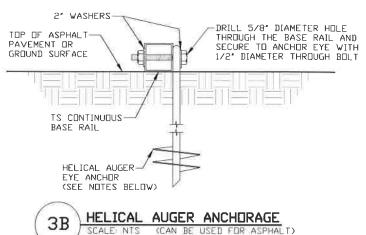
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

HELICAL AUGER ANCHOR NOTES:

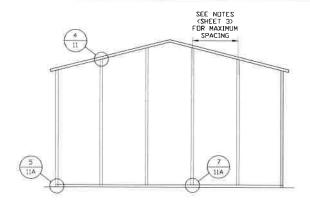
- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINCLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 3C' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 5C' 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° EMBERMENT
- 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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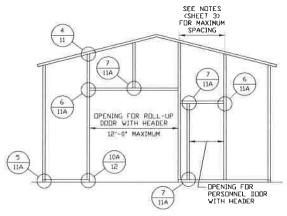
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



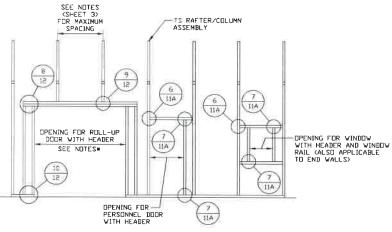
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



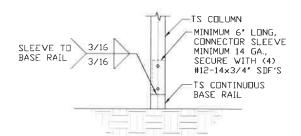
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

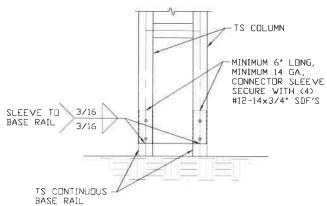
* 10'-C' MAX. FOR 5'-O' D.C. RAFTER/COLUMN SPACING. * 9'-C' MAX. FOR 4'-O' D.C. RAFTER/COLUMN SPACING.

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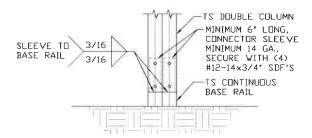
CONNECTION DETAILS



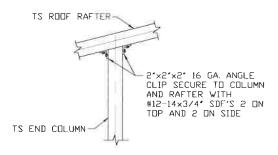
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



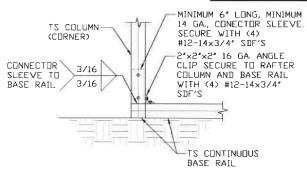
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS

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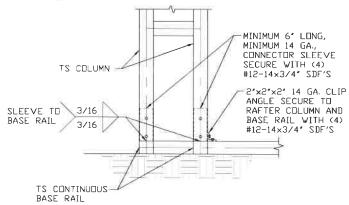
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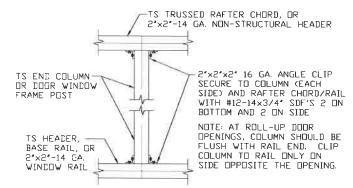
CONNECTION DETAILS



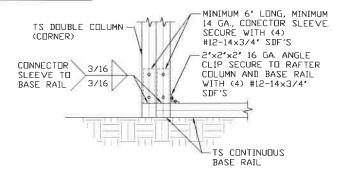
5 END COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



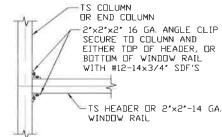
5B CONNECTION DETAIL SCALE: NTS



COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL SCALE NTS







6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

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	CLIENT: CC	SHT. 11A	DVG. ND SK-3		REV. 0	

CONNECTION DETAILS CONNECTOR SLEEVE TO 3/16 TS DOUBLE HEADER 3/16 TS COLUMN CONNECTOR 3/16 SLEEVE TO HEADER MINIMUM 6' LONG, MINIMUM 14 GA., TS SLEEVE. SECURE WITH (4) 3/16 MINIMUM 6' LONG, MINIMUM 14 GA., TS SLEEVE. SECURE EACH WITH (4) #12-14x3/4' #12-14×3/4" SDF'S TS COLUMN TS DOUBLE HEADER 3-12 COLUMN/DOUBLE HEADER DOUBLE HEADER/COLUMN CONNECTION DETAIL CONNECTION DETAIL 9 8 SCALE: NTS TS COLUMN MINIMUM 6' LONG, MINIMUM 14 GA., CONECTOR SLEEVE SECURE EACH WITH (4) #12-14×3/4' SDF'S CONNECTOR SLEEVE TO BASE RAIL CONNECTOR 3/16 3/16 SLEEVE TO BASE RAIL 3/16 3/16 TS CONTINUOUS BASE RAIL COLUMN/BASE RAIL COLUMN/BASE RAIL CONNECTION DETAIL CONNECTION DETAIL 10A 10 SCALE: NTS SCALE: NTS TS ROOF RAFTER 3/16 3/16 RAFTER TO CHORD CONNECTION DETAIL 11 SCALE: NTS TS ROOF RAFTER

COLLAR TIE

SCALE: NTS

12

CONNECTION DETAIL

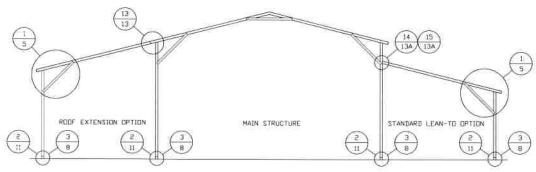
TS COLUMN

TS CONTINUOUS BASE RAIL

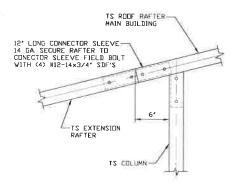
MINIMUM 6' LONG, MINIMUM 14 GA., CONECTOR SLEEVE. SECURE EACH WITH (4) #12-14×3/4' SDF'S

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BOX EAVE RAFTER LEAN-TO OPTIONS



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

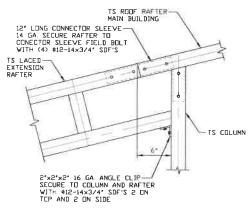


TS ROOF RAFTER-I2' LONG CONNECTOR SLEEVE = 14 GA SECURE RAFTER TO CONECTOR SLEEVE FIELD BOLT WITH (4) #12-14x3/4' SDF'S TS DOUBLE EXTENSION RAFTER 3-12 TS COLUMN 3-12 2'x2'x2' 16 GA ANGLE CLIP— SECURE TO COLUMN AND RAFTER WITH #12-14x3/4' SDF'S 2 DN TOP AND 2 DN SIDE

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN & 12'-0"

SCALE: NTS

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 12'-0" < L ≤ 16'-0" 13A



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 16'-0" < L < 20'-0" 13B

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2' ME' ME' 16 GA ANGLE CLIP SECURE TD COLLUMN AND RAFTER VITH H12-14×3/4' SDF'S 2 DN TOP AND 2 UN SIDE TS RAFTER

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN \(12'-0'

14

15

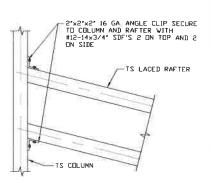
15B

LEAN-TO OPTIONS

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 12'-0" < L \(\lefta\) 16'-0"

14A

15A



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'-0" < L \(\leq 20'-0" \)

14B

3/16 CDINNECTOR
SLEEVE TO
COLUMN

MINIMUM 6' LONG, MINIMUM 14 GA,
CONNECTOR SLEEVE SECURE
COLUMN TO CONNECTOR SLEEVE
WITH (4) NI2-14x3/4' SDF'S

TS RAFTER

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN \(12'-0')

SCALE: NTS

3/16 CONNECTOR SLEEVE TO COLLUMN TYP

MINIMUM 6' LONG, MINIMUM 14 GA., CONNECTOR SLEEVE. SECURE COLUMN TO CONNECTOR SLEEVE WITH (4) MI2-14x3/4' SDF'S (TYP.)

TS DOUBLE RAFTER

3-12
3-12

LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN 12'-0' < L \(\) 16'-0'

SCALE: NTS

3/16 CONNECTOR
SLEEVE TO
COLUMN
TYP

MINIMUM 6' LONG, MINIMUM 14 GA.,
CONNECTOR SLEEVE, SECURE
COLUMN TO CONNECTOR SLEEVE
WITH (4) #12-14x3/4' SDF'S

TS LACED RAFTER

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'-0' < L \(\leq 20'-0'' \)

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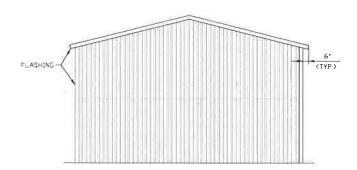
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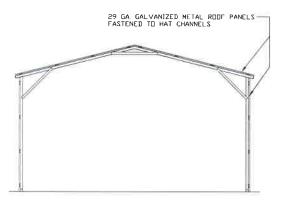
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BOX EAVE RAFTER VERTICAL ROOF OPTION



TYPICAL END ELEVATION VERTICAL ROOF

SCALE: NTS

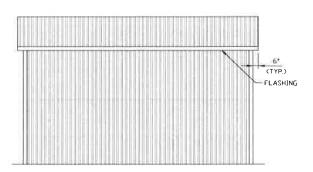


TYPICAL SECTION VERTICAL ROOF OPTION SCALE: NTS

1125'-18 GAUGE
HAT CHANNEL

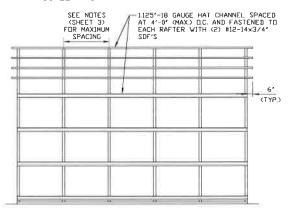
RAFTER

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



TYPICAL SIDE ELEVATION VERTICAL ROOF

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF OPTION

SCALE: NTS

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