

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**



		<p>I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWITH. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.</p>	

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PROJECT MGR: WSH	DATE: 4-12-19	SCALE: NTS	JOB NO: 18378S
CLIENT: CC	SHT. 1	DWG NO: SK-3	REV: 0

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 CAROLINA BUILDING CODE, 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 INTERNATIONAL BUILDING 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" O.C. SPACING.
= 42 PSF AT 4'-0" O.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 #12-14x3/4" (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 (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG. SOIL NAILS MAY BE USED FOR MAXIMUM WIND V = 145 MPH AND IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND V > 145 MPH AND/OR 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= 1.0
S_{ps}= 2.039 g V= C_sW
S_{DI}= 1.258 g
15. DOOR AND WINDOW PRESSURES APPLICABLE TO THE STATE OF FLORIDA.

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SCALE: NTS

JOB NO: 18378S

CLIENT: CC

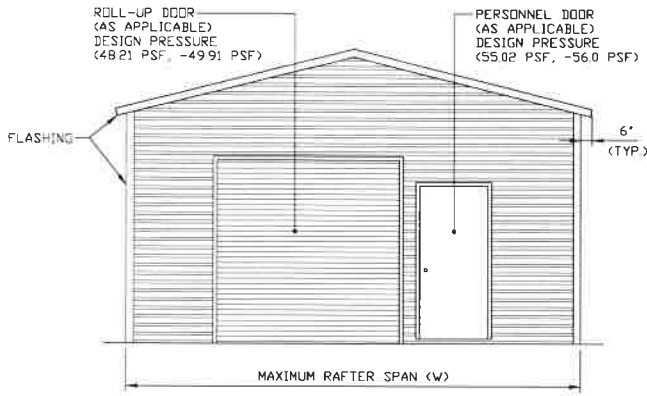
SHT. 3

DWG. NO: SK-3

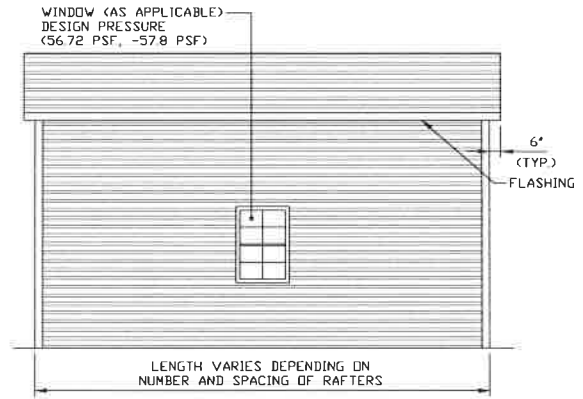
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BOX EAVE FRAME RAFTER STRUCTURE

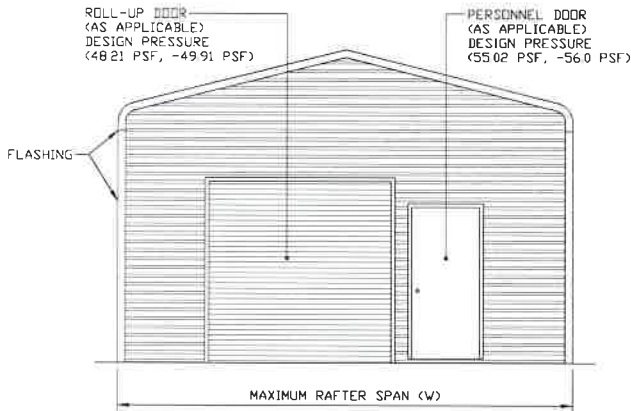


TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

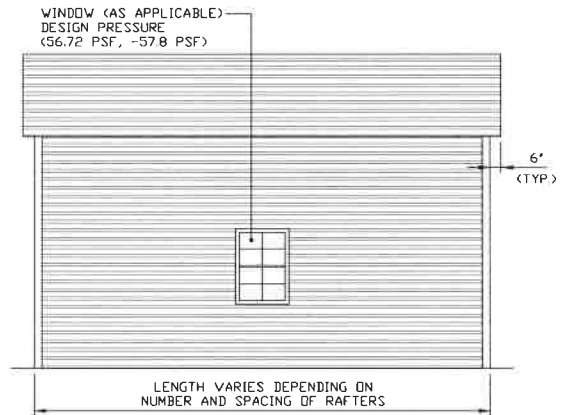


TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS

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SHT. 3A

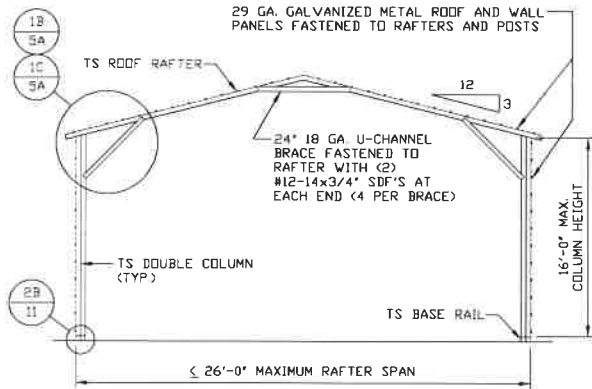
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DWG. NO SK-3

JOB NO: 18378S

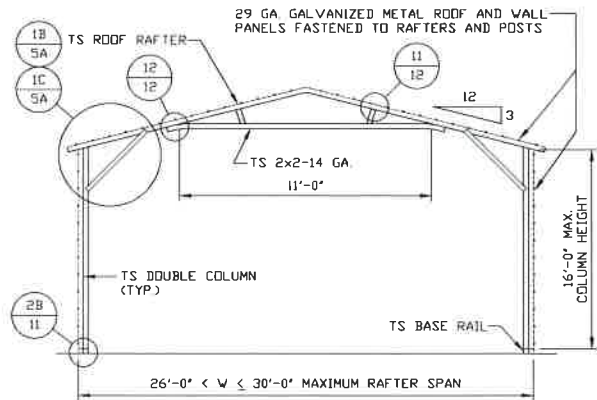
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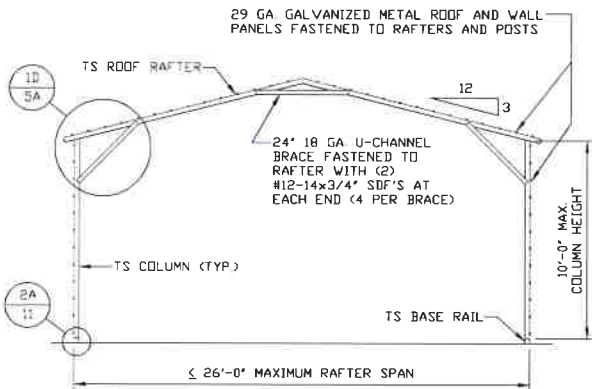
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



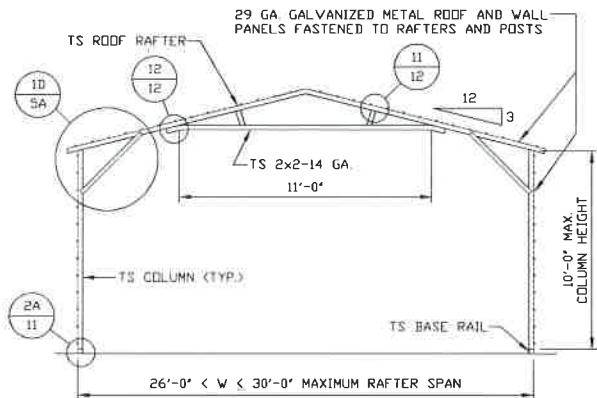
TYPICAL RAFTER/COLUMN END FRAME SECTION

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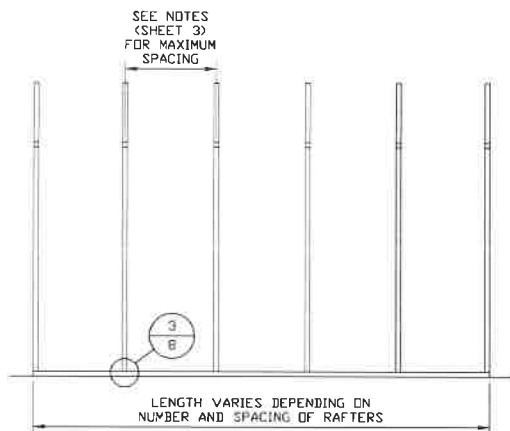
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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SHT. 4A

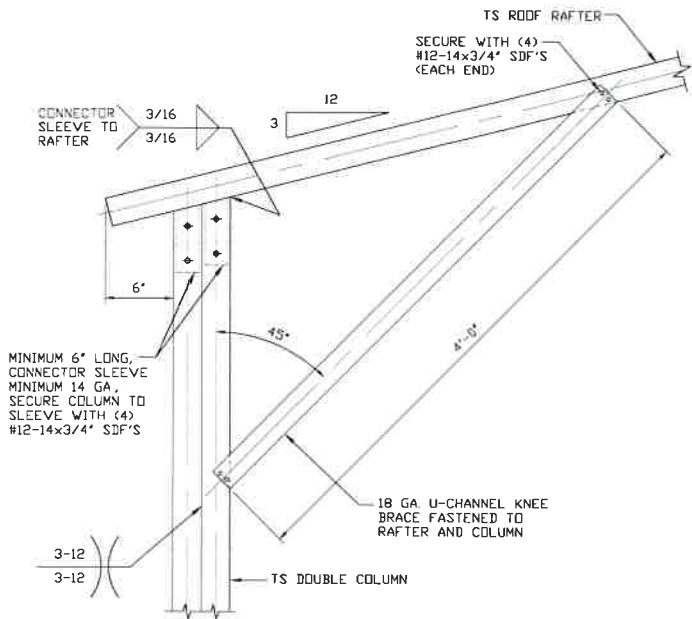
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DWG. NO: SK-3

JOB NO: 18378S

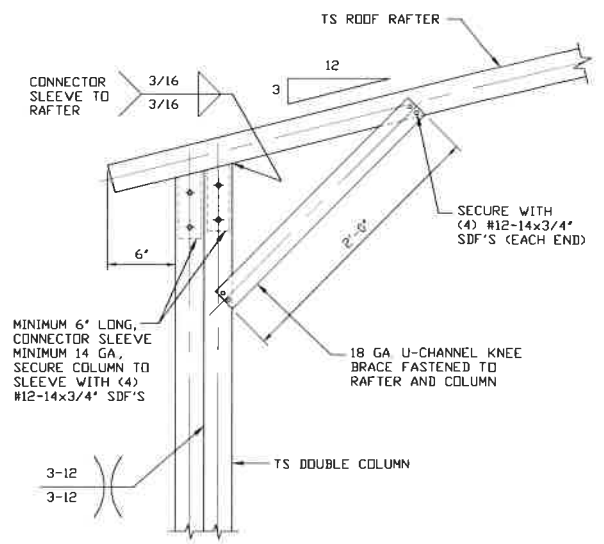
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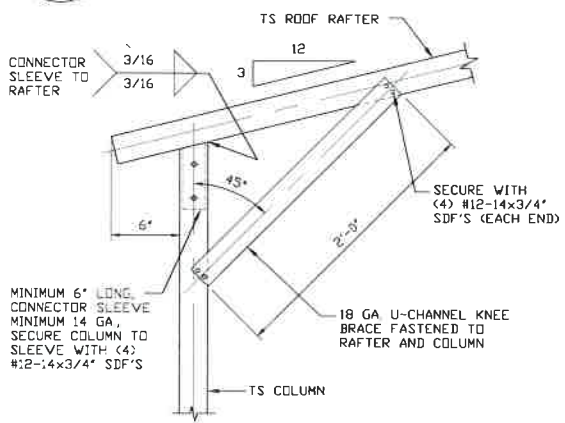
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BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 16'-0"
SCALE: NTS



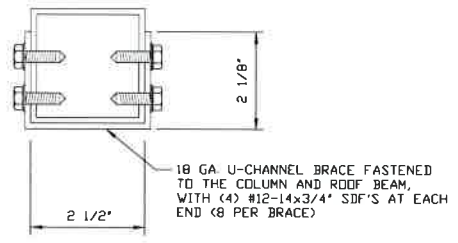
1C

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"
SCALE: NTS



1D

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 10'-0"
SCALE: NTS



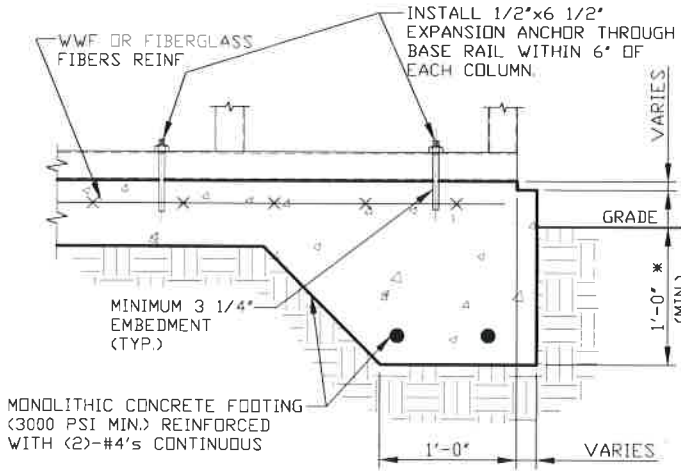
BRACE SECTION
SCALE: NTS

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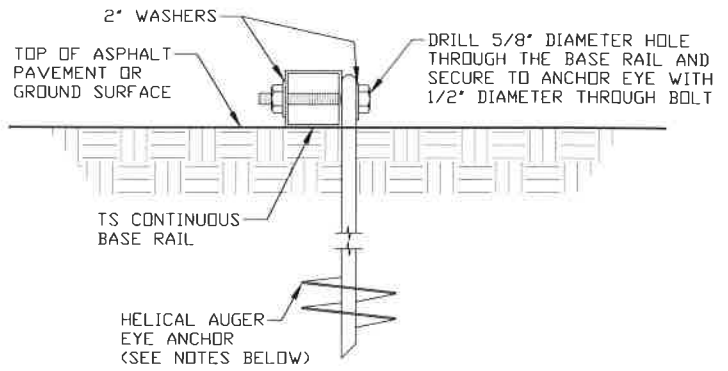
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BASE RAIL ANCHORAGE OPTIONS



3A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
 SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4".
 * COORDINATE WITH LOCAL CODES/ORD.



3B HELICAL AUGER ANCHORAGE
 SCALE: NTS (CAN BE USED FOR ASPHALT)

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.

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 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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SCALE: NTS

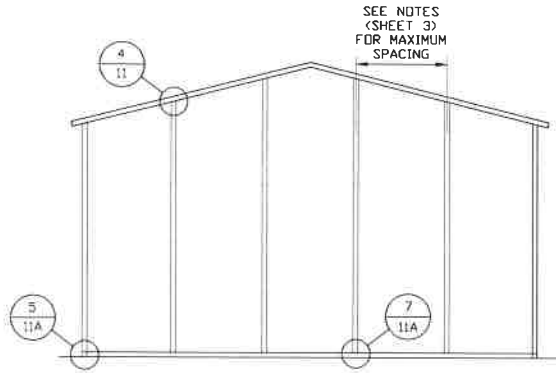
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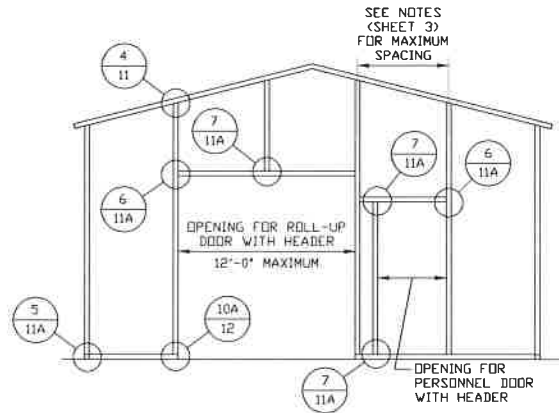
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



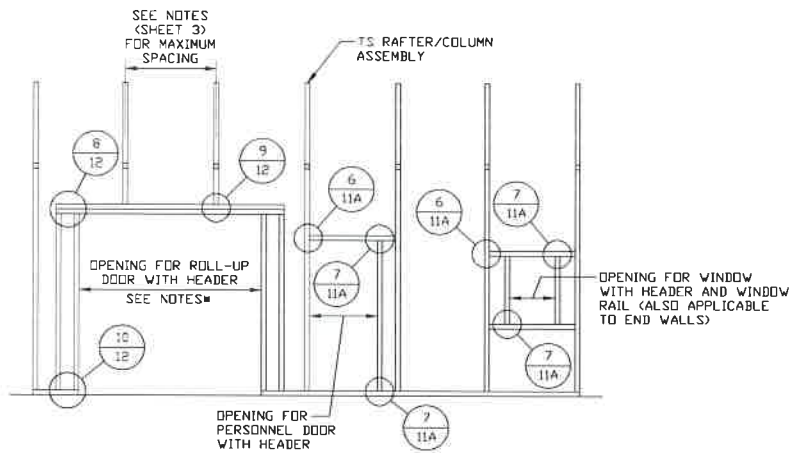
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

NOTES:

- * 10'-0" MAX. FOR 5'-0" D.C. RAFTER/COLUMN SPACING.
- * 9'-0" MAX. FOR 4'-0" D.C. RAFTER/COLUMN SPACING.

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SCALE: NTS

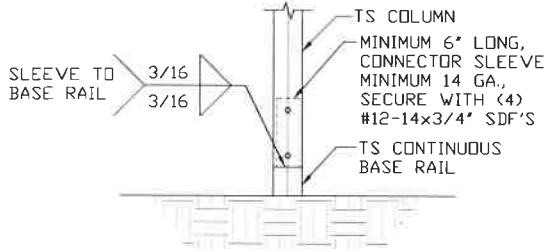
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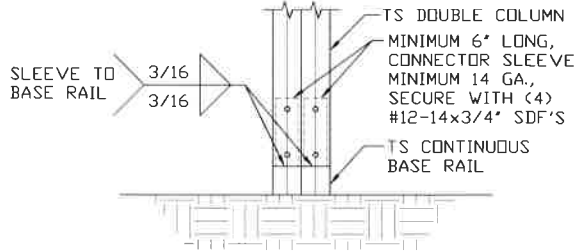
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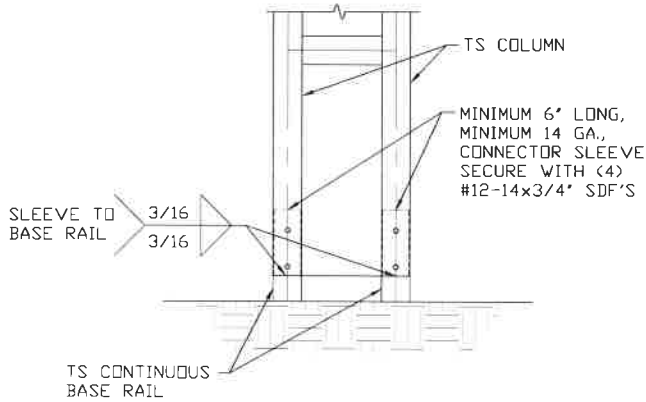
CONNECTION DETAILS



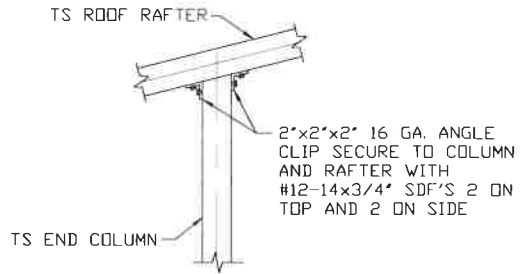
2A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



2B RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



2C RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS

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SCALE: NTS

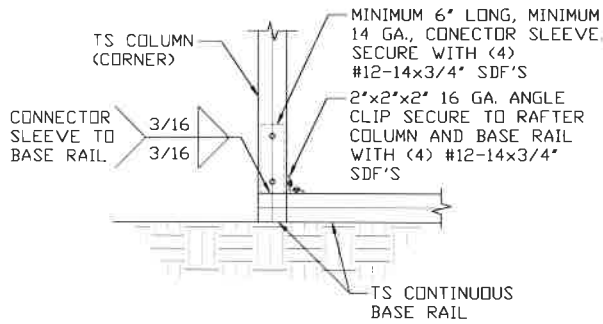
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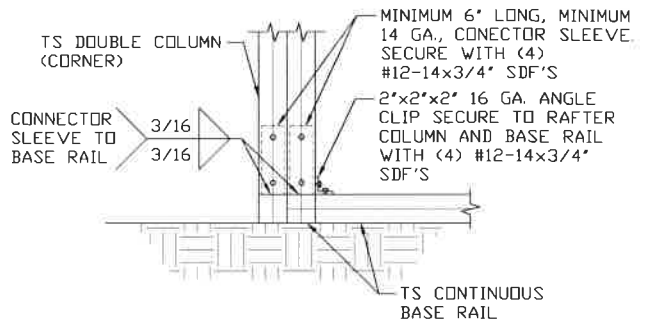
CONNECTION DETAILS



5

END COLUMN/BASE RAIL CONNECTION DETAIL

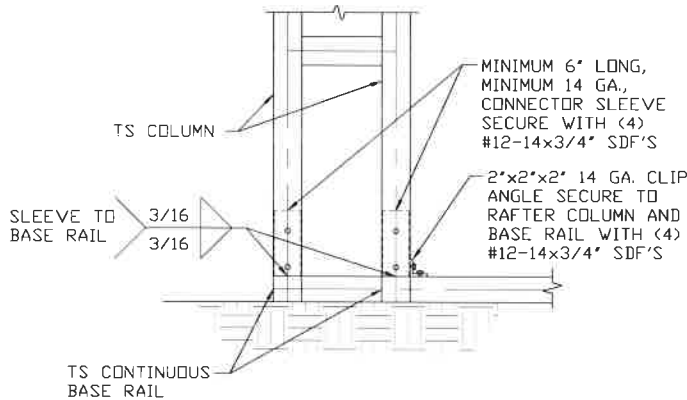
SCALE: NTS



5A

END COLUMN/BASE RAIL CONNECTION DETAIL

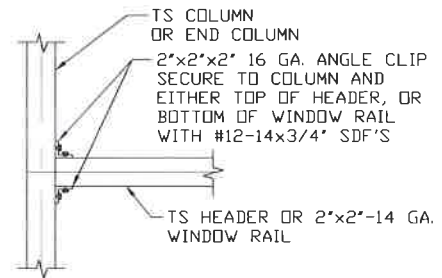
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5B

END COLUMN/BASE RAIL CONNECTION DETAIL

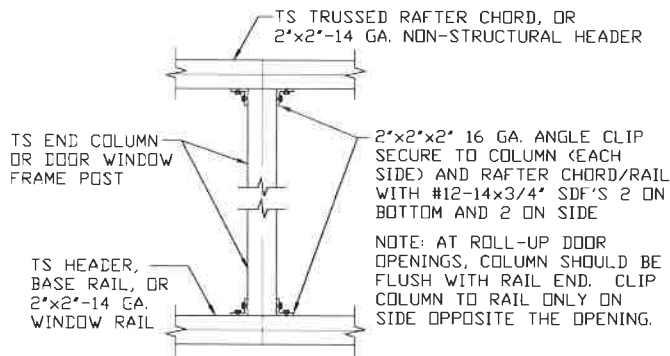
SCALE: NTS



6

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS



7

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

SCALE: NTS

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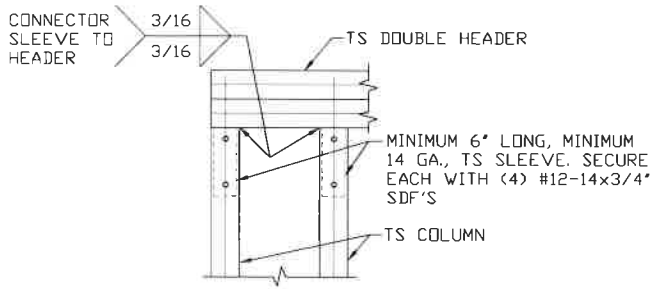
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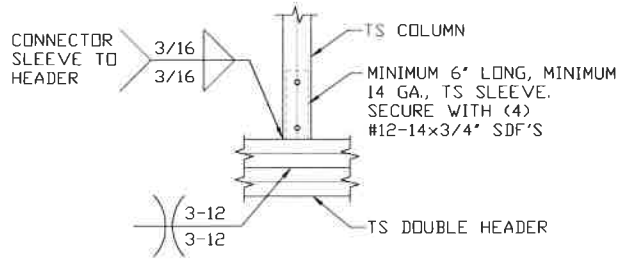
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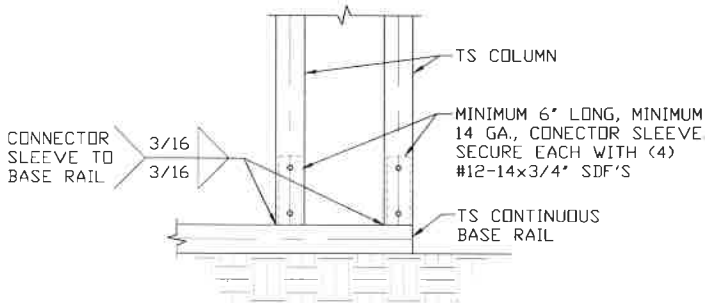
CONNECTION DETAILS



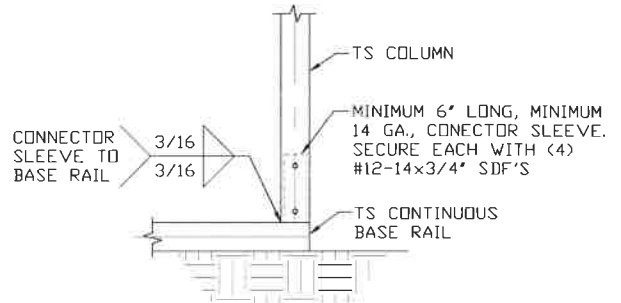
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



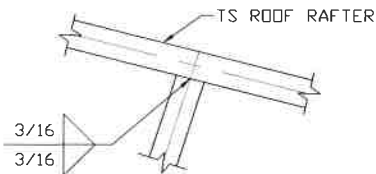
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



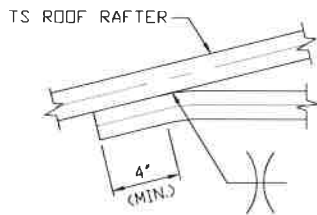
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



10A COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

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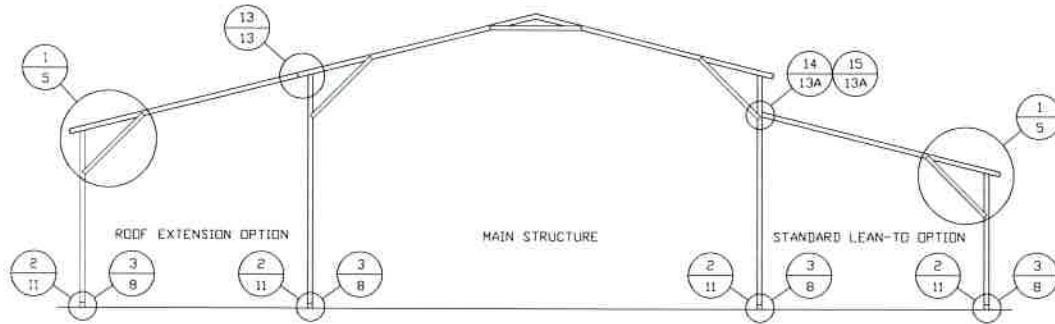
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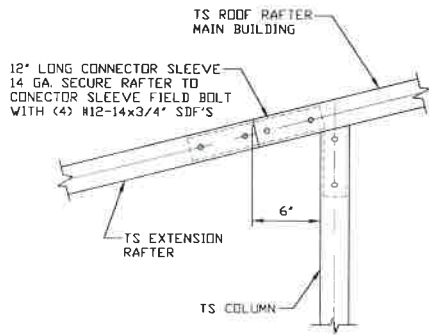
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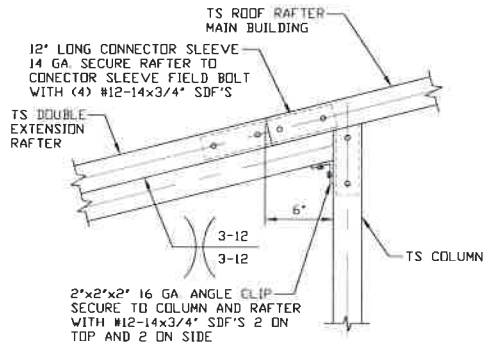
BOX EAVE RAFTER LEAN-TO OPTIONS



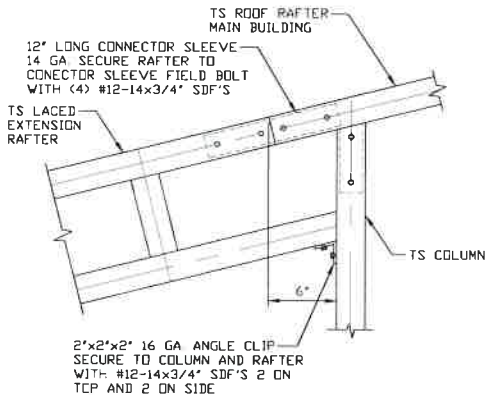
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)
SCALE: NTS



13 **SIDE EXTENSION RAFTER/COLUMN**
DETAIL FOR SPAN < 12'-0"
SCALE: NTS



13A **SIDE EXTENSION RAFTER/COLUMN**
DETAIL FOR SPAN 12'-0" < L < 16'-0"
SCALE: NTS



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

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SHT. 13

SCALE: NTS

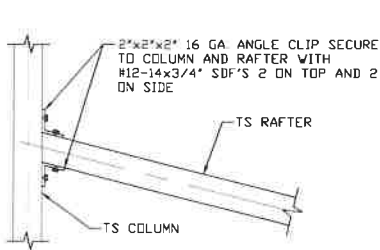
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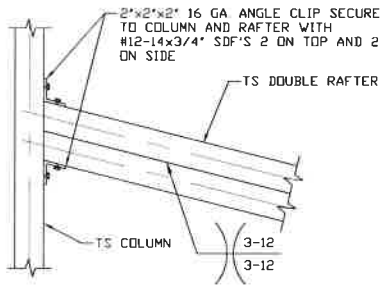
LEAN-TO OPTIONS



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL
FOR SPAN $\le 12'-0''$**

14

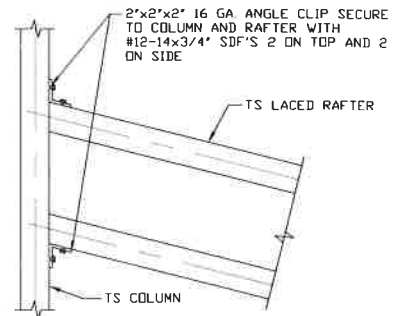
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**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN $12'-0'' < L \le 16'-0''$**

14A

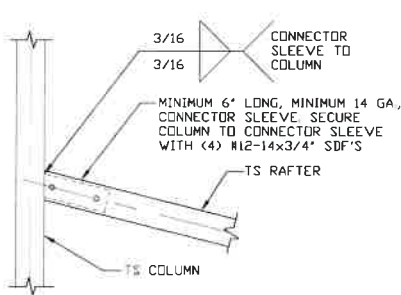
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**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN $16'-0'' < L \le 20'-0''$**

14B

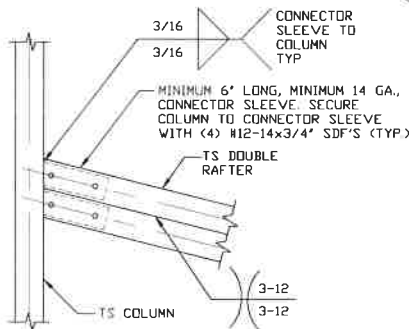
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**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL
FOR SPAN $\le 12'-0''$**

15

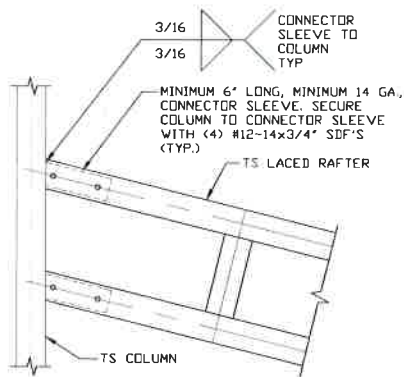
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**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN $12'-0'' < L \le 16'-0''$**

15A

SCALE: NTS



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN $16'-0'' < L \le 20'-0''$**

15B

SCALE: NTS

MOORE AND ASSOCIATES
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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

DATE: 4-12-19

SHT. 13A

SCALE: NTS

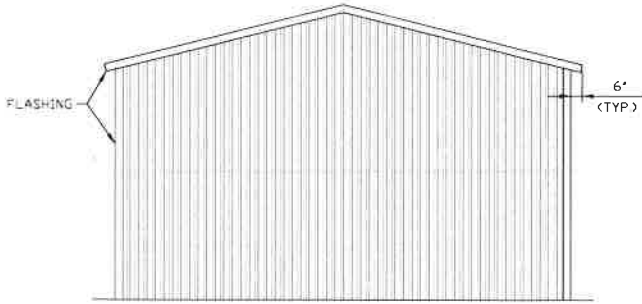
DWG. NO: SK-3

JOB NO: 18378S

REV: 0

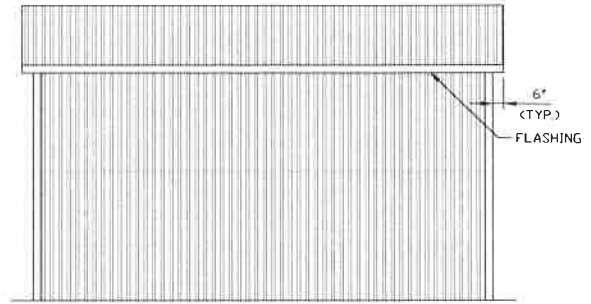
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BOX EAVE RAFTER VERTICAL ROOF OPTION



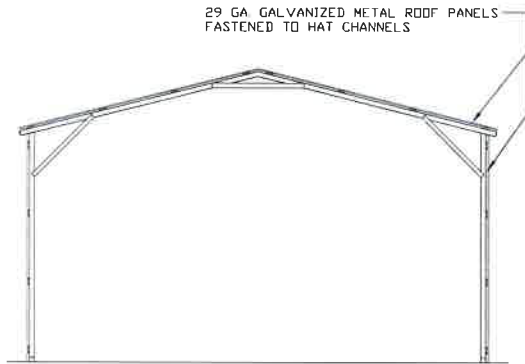
**TYPICAL END ELEVATION
VERTICAL ROOF**

SCALE: NTS



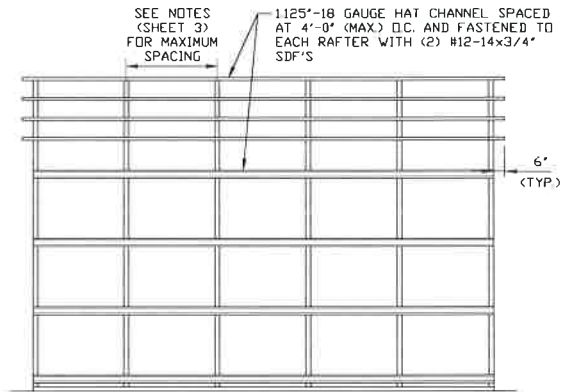
**TYPICAL SIDE ELEVATION
VERTICAL ROOF**

SCALE: NTS



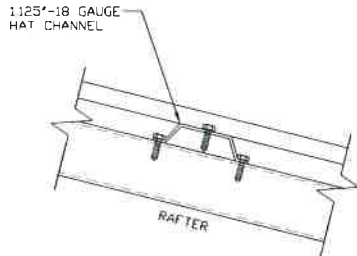
**TYPICAL SECTION
VERTICAL ROOF OPTION**

SCALE: NTS



**TYPICAL FRAMING SECTION
VERTICAL ROOF OPTION**

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

**MOORE AND ASSOCIATES
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SHT. 15

SCALE: NTS

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