



STRUCTURAL DESIGN

ENCLOSED BUILDING

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

7 December 2018

Revision 7

M&A Project No. 16166S/17207S/17293S/18012S/18260S

Prepared for:

**Eagle Carports
210 Airport Road
Mount Airy, NC 27030**

Prepared by:




Moore and Associates Engineering and Consulting, Inc.

**1009 East Avenue
North Augusta, SC 29841**

**401 S. Main Street
Mount Airy, NC 27030**



MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.		DRAWN BY: LT		EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE	
		CHECKED BY: PDH			
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		CLIENT: EAGLE CARPORTS	SHT. 1	DWG. NO: SK-3	REV: 7

			
			
			
	<p>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date <u>6/8/20</u></p>		

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CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 1A

SCALE: NTS

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DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET (1 OF 2)
SHEET 1A	PE SEAL COVER SHEET (2 OF 2)
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 3A	TYPICAL SIDE AND END ELEVATIONS
SHEET 4	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOX EAVE RAFTER)
SHEET 4A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET 4B	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOX EAVE RAFTER)
SHEET 4C	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET 5A	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5B	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5C	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5D	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 6	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOW RAFTER)
SHEET 6A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOW RAFTER)
SHEET 6B	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOW RAFTER)
SHEET 6C	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOW RAFTER)
SHEET 7A	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET 7B	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET 7C	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET 7D	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET 8	BASE RAIL ANCHORAGE OPTIONS
SHEET 9	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW RAFTER)
SHEET 11	CONNECTION DETAILS
SHEET 12	CONNECTION DETAILS
SHEET 13	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 13A	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 13B	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 13C	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 14	LEAN-TO OPTIONS (BOW RAFTER)
SHEET 14A	LEAN-TO OPTIONS (BOW RAFTER)
SHEET 14B	LEAN-TO OPTIONS (BOW RAFTER)
SHEET 15	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION
SHEET 16	SIDE WALL HEADER OPTIONS

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CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

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**JOB NO:
161665/18012S/18260S**

SHT. 2

DWG. NO: SK-3

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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 = 35 PSF
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH).
5. MAXIMUM RAFTER/POST SPACING = 5.0 FEET.
6. END POST SPACING = 5.0 FEET.
7. END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL POSTS UNLESS NOTED OTHERWISE.
8. RISK CATEGORY I.
9. WIND EXPOSURE CATEGORY B/C.
10. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2"x2 1/2"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS.
11. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10' O.C. (MAX.)
12. FASTENERS CONSIST OF #12-14x3/4" 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.
13. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
14. 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.
15. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I/II/III
 - R= 3.25 $I_E= 1.0$
 - $S_{DS}= 2.039 g$ V= $C_S W$
 - $S_{D1}= 1.258 g$

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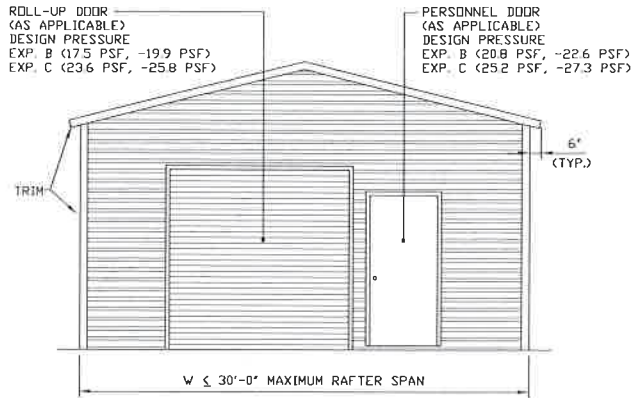
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SHT. 3

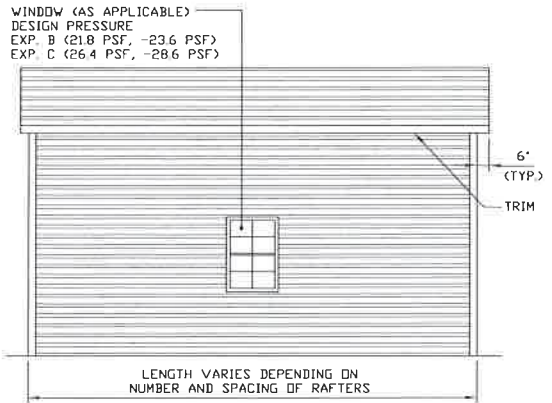
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BOX EAVE FRAME RAFTER STRUCTURE

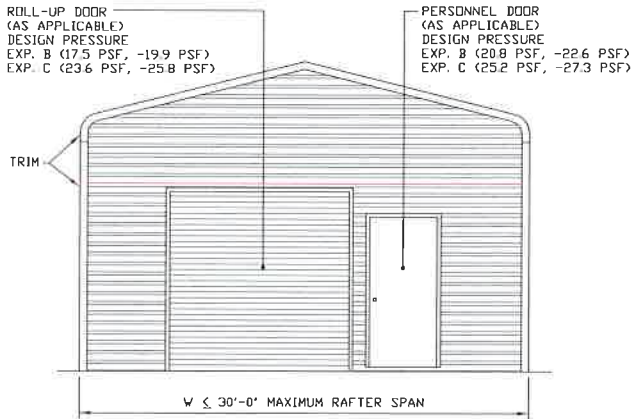


TYPICAL END ELEVATION
SCALE: NTS

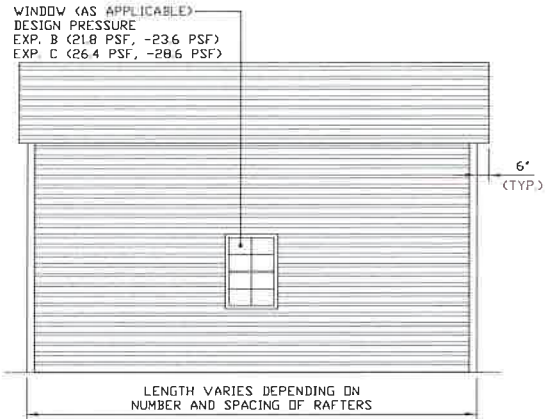


TYPICAL SIDE ELEVATION
SCALE: NTS

BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL SIDE ELEVATION
SCALE: NTS

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SCALE: NTS

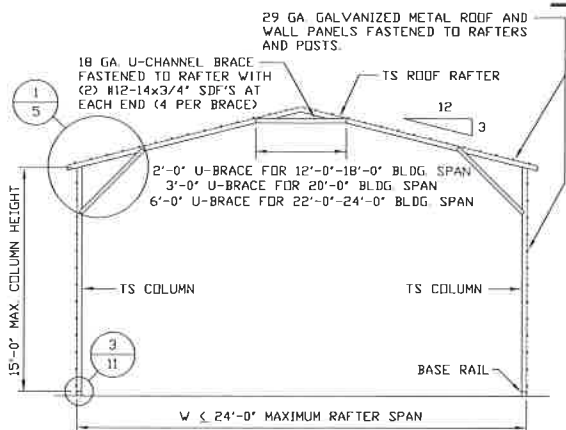
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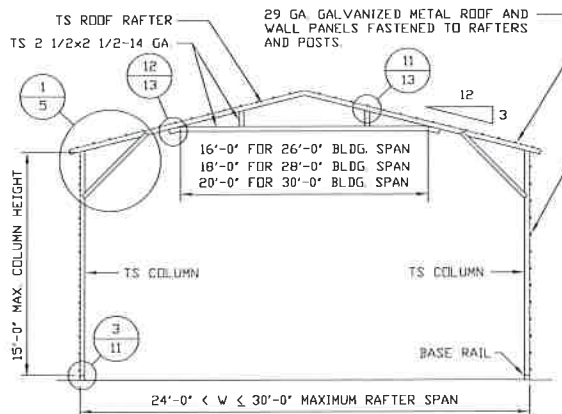
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EXPOSURE B



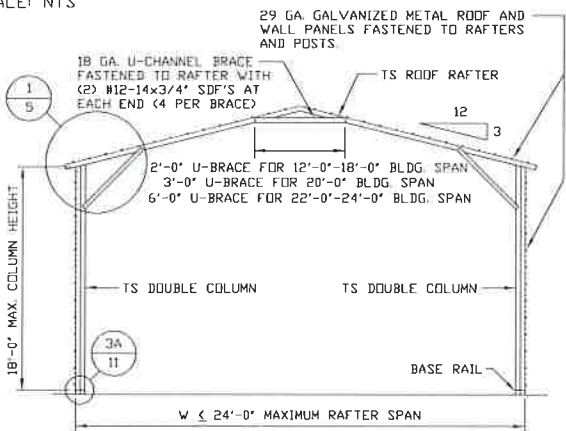
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



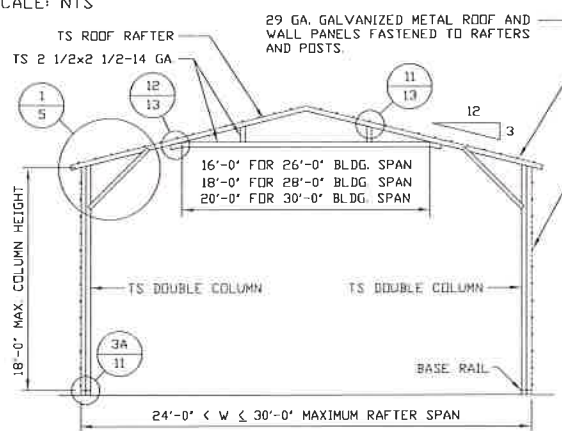
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

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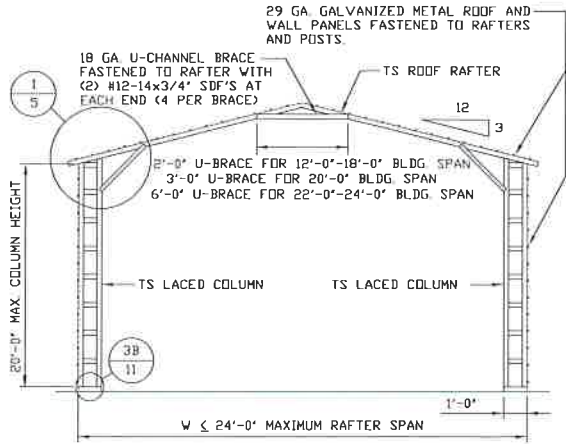
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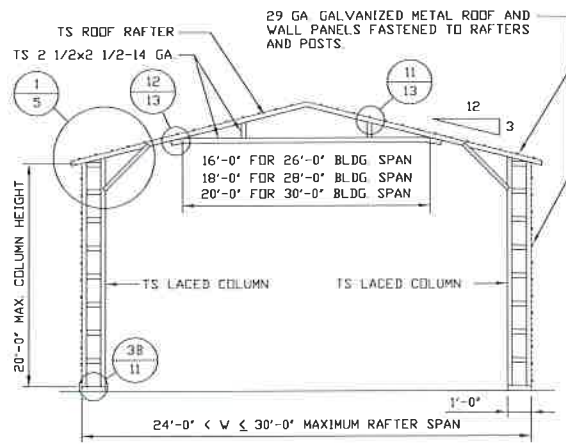
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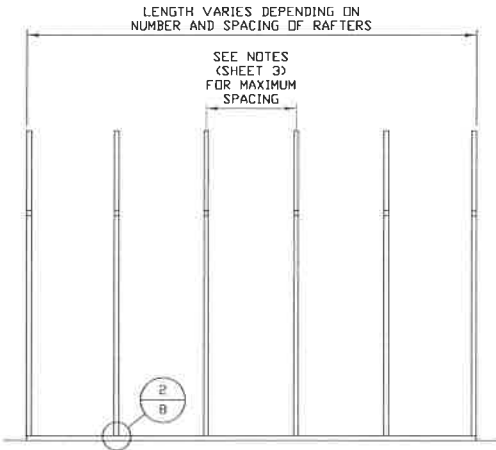
EXPOSURE B



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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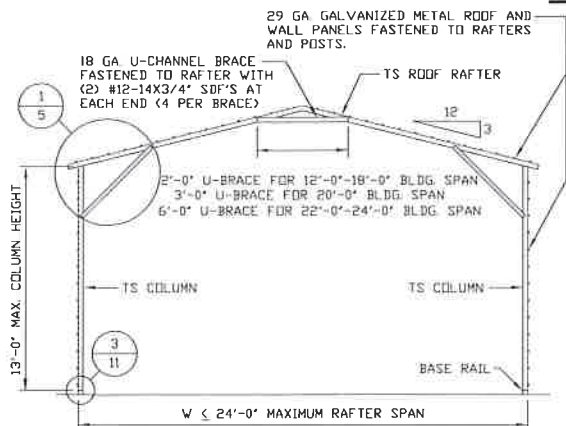
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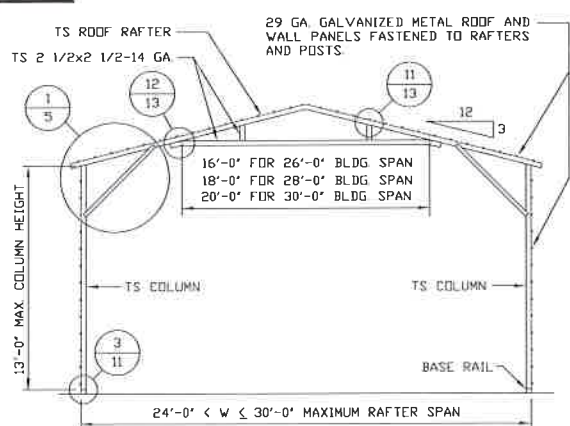
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EXPOSURE C



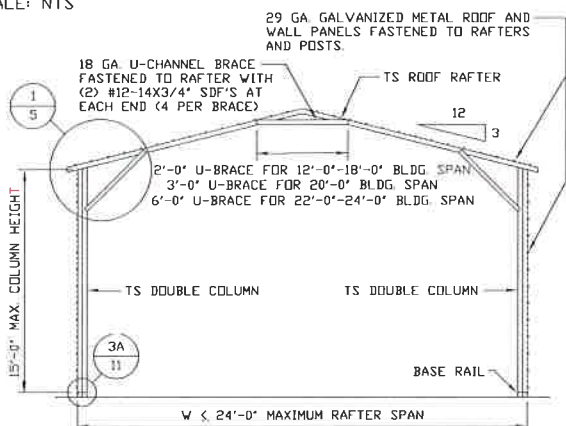
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



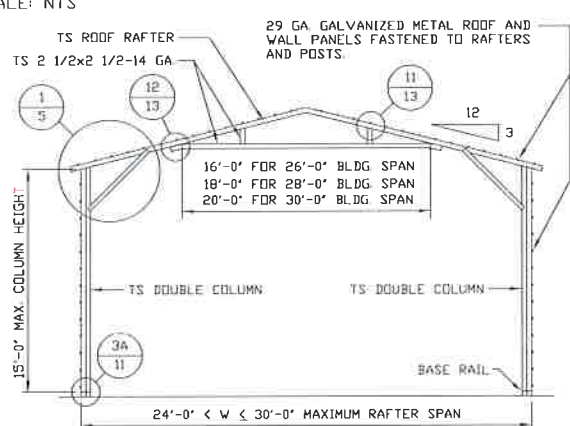
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

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TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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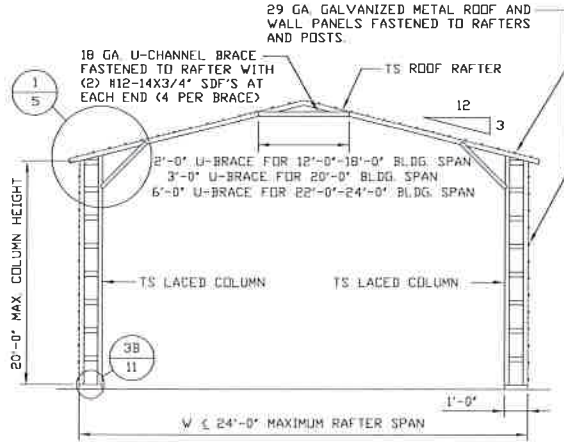
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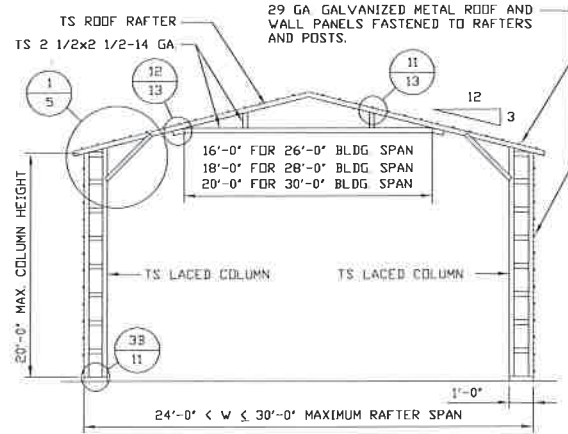
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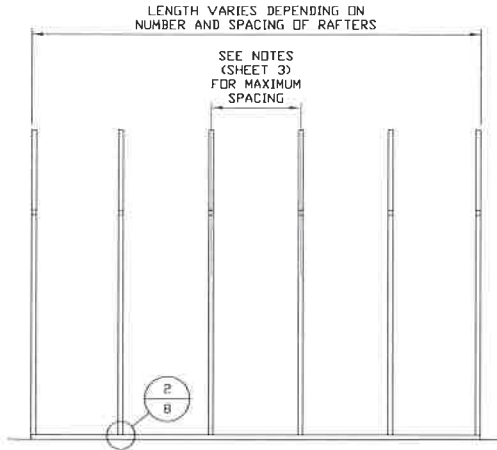
EXPOSURE C



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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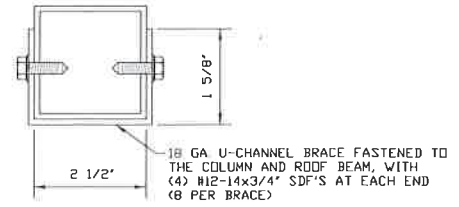
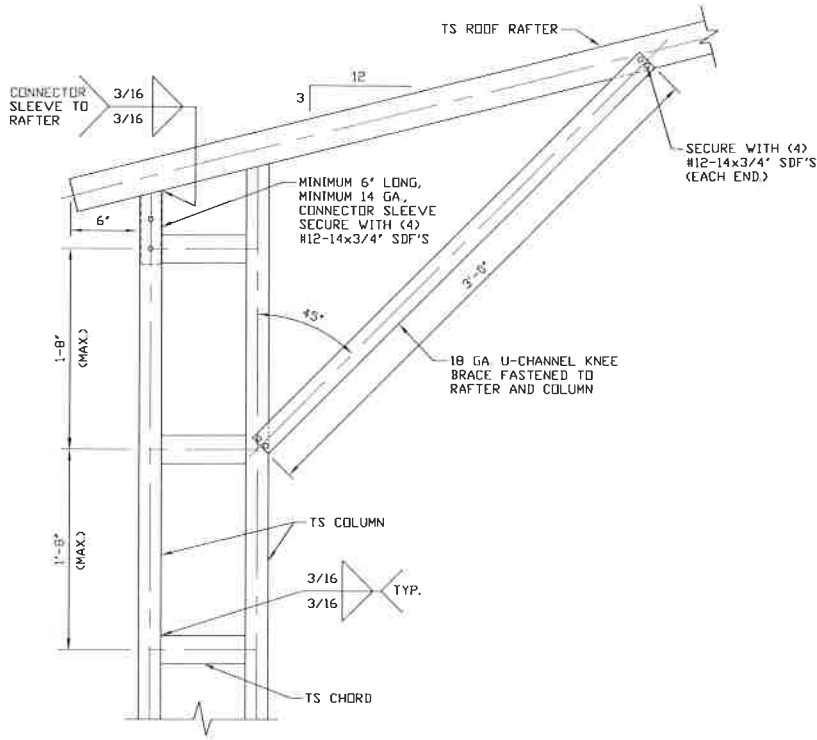
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EXPOSURE B



BRACE SECTION
SCALE: NTS

1A **BOX EAVE RAFTER COLUMN CONNECTION**
DETAIL FOR HEIGHTS 18'-0" < TO ≤ 20'-0"
SCALE: NTS

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SHT. 5A

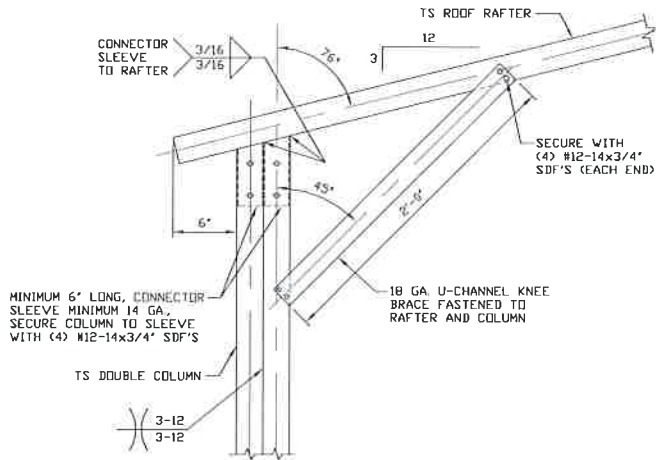
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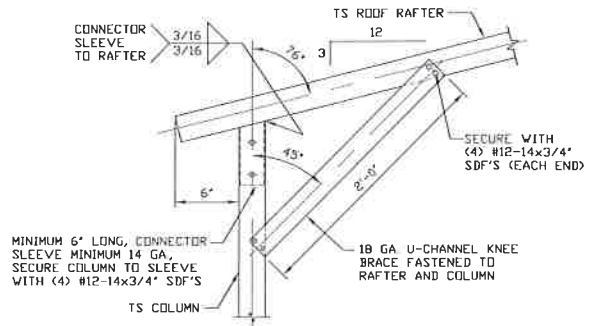
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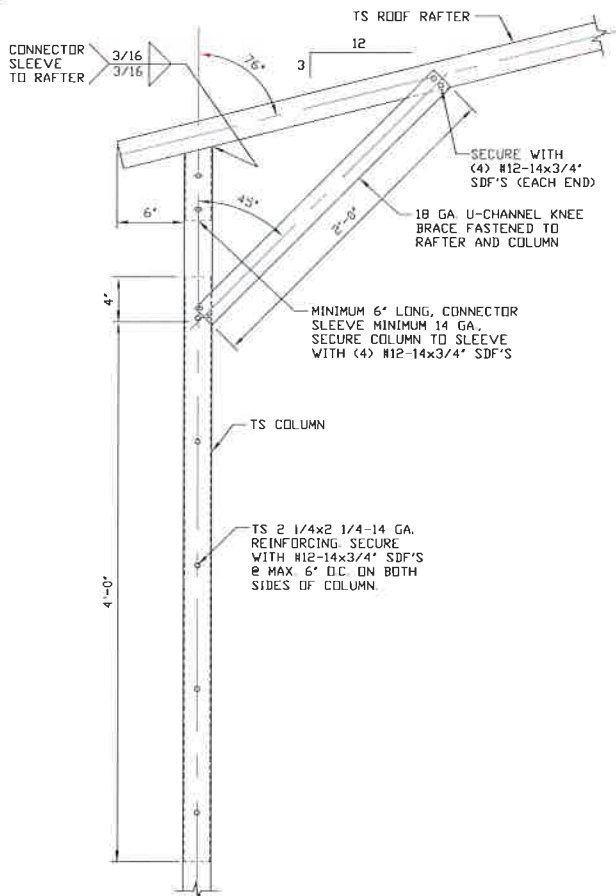
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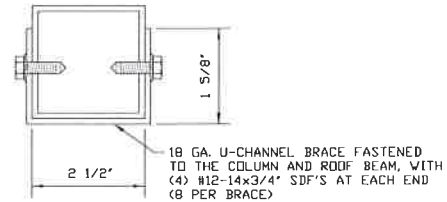
1B BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 15'-0" < TO ≤ 18'-0"
SCALE: NTS



1D BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"
SCALE: NTS



1C BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 12'-0" < TO ≤ 15'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS

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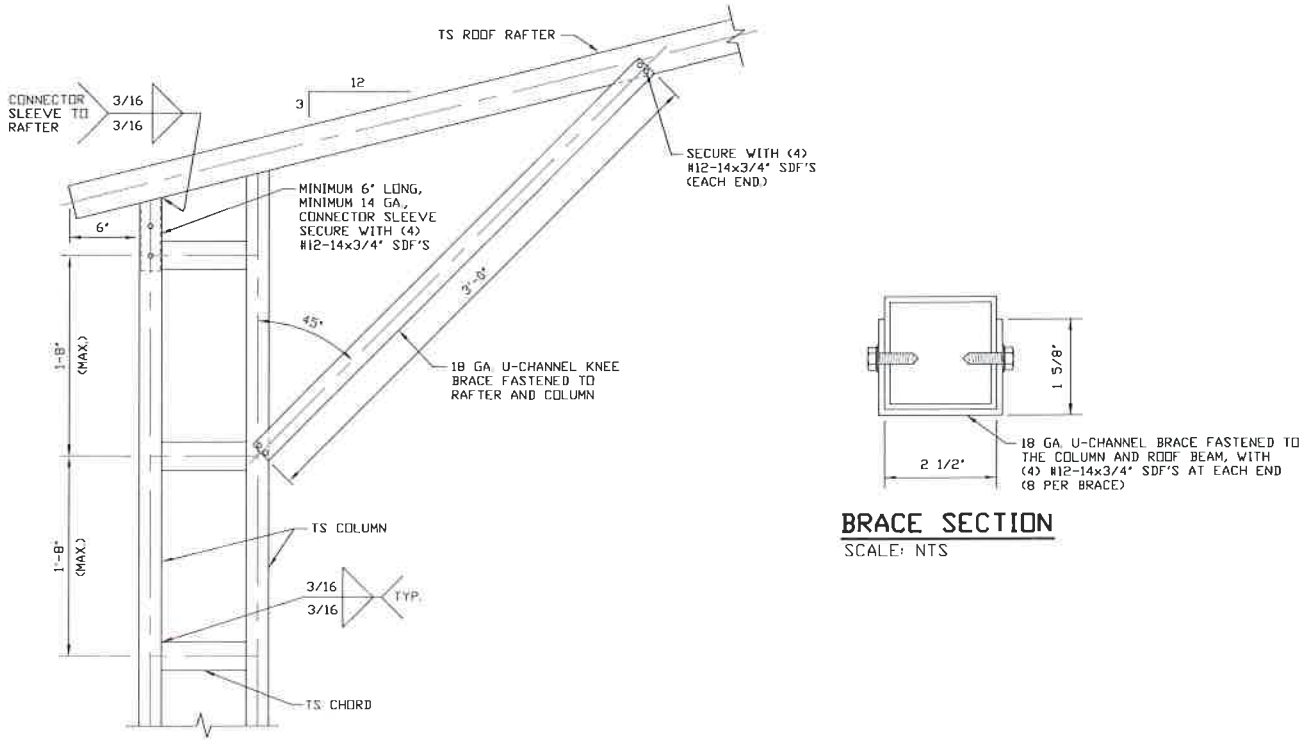
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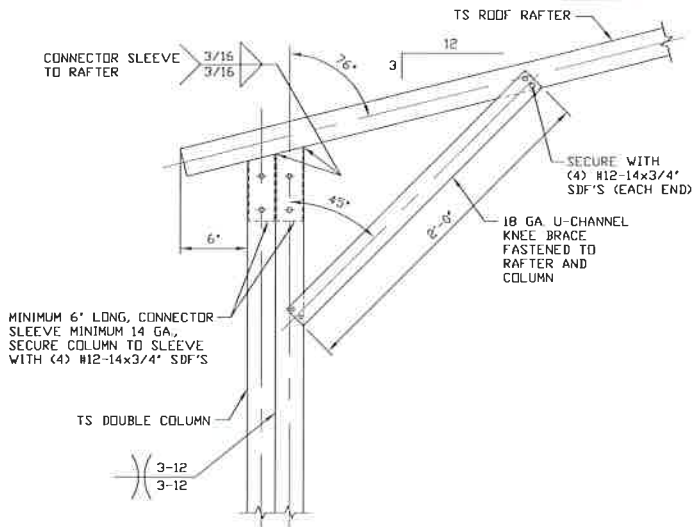
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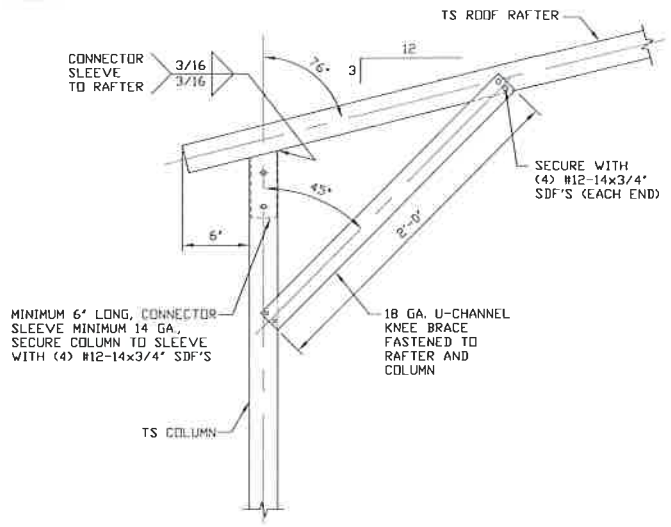
1E BOX EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 15'-0" < TO ≤ 20'-0"
 SCALE: NTS

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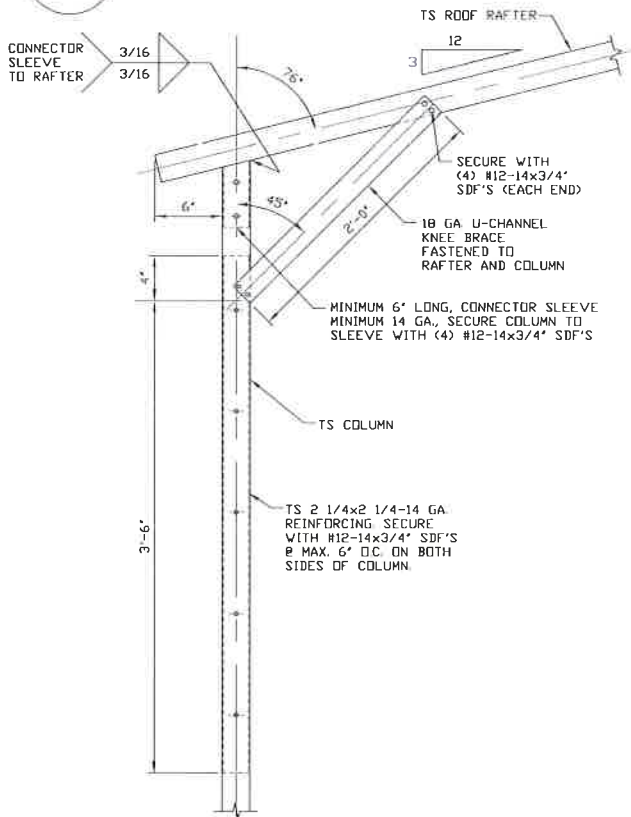
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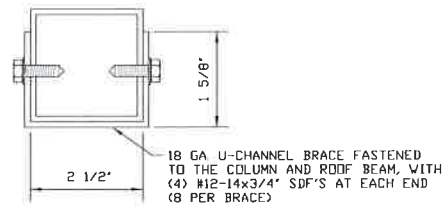
1F BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO <= 15'-0"
SCALE: NTS



1H BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 9'-0"
SCALE: NTS



1G BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO <= 13'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS

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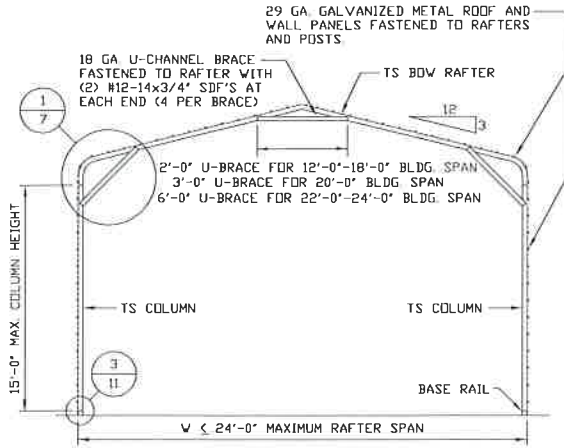
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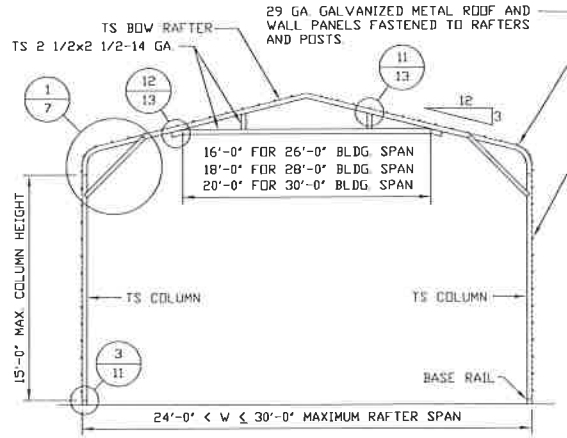
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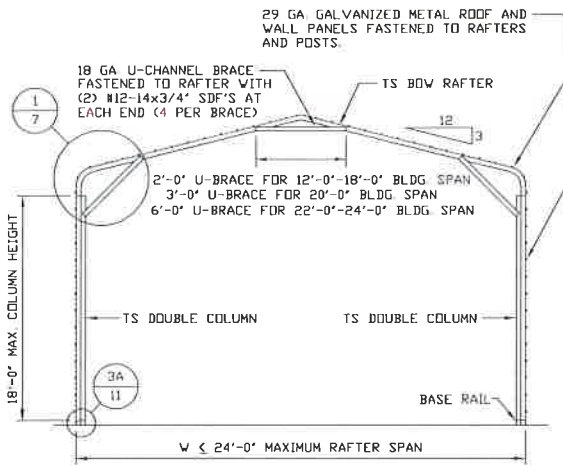
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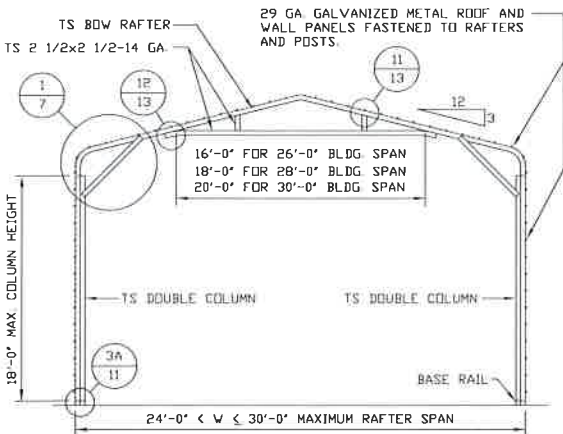
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SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 6

SCALE: NTS

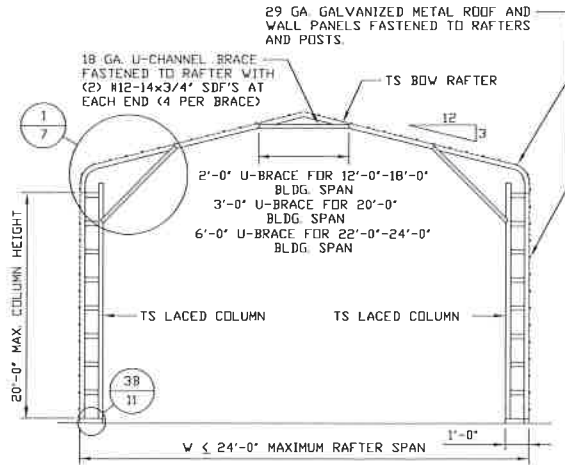
DWG. NO: SK-3

**JOB NO:
16166S/18012S/18260S**

REV: 7

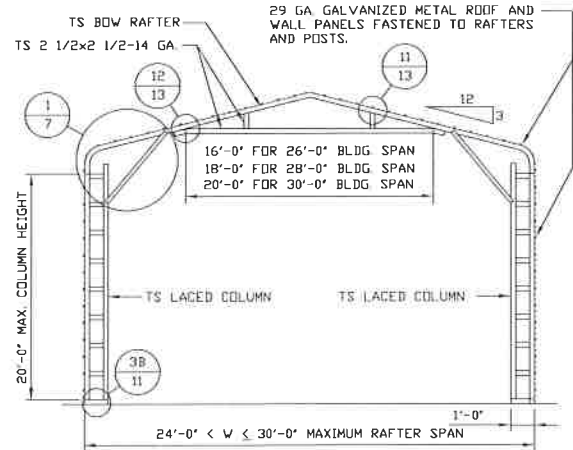
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EXPOSURE B



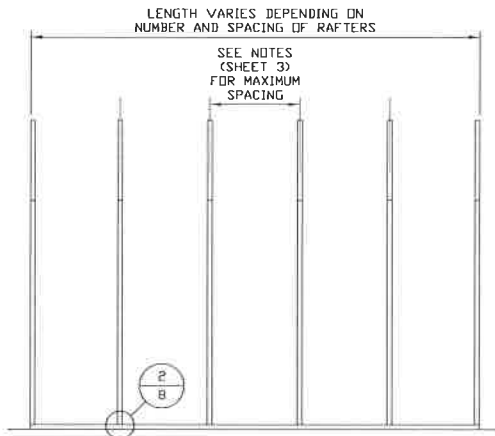
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SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 6A

SCALE: NTS

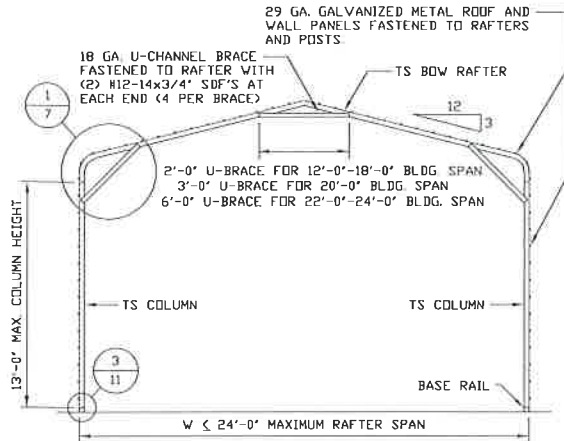
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JOB NO:
16166S/18012S/18260S

REV: 7

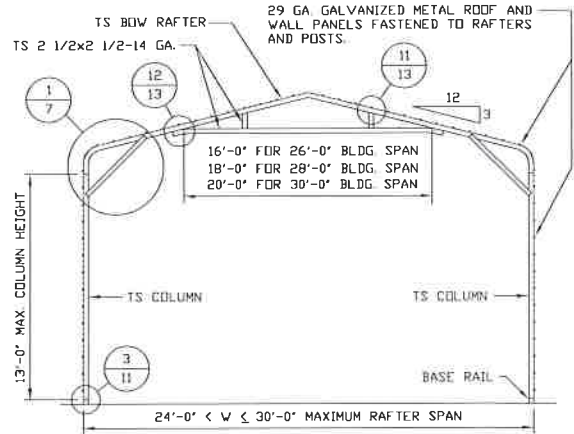
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EXPOSURE C



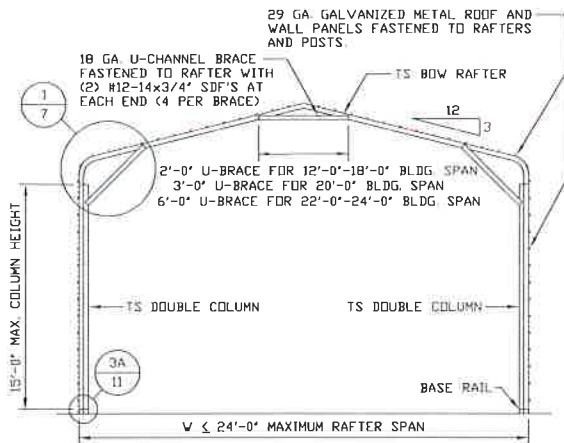
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SCALE: NTS



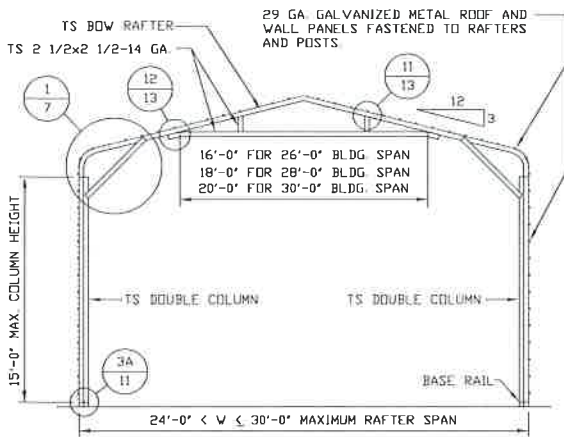
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SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

SHT. 6B

SCALE: NTS

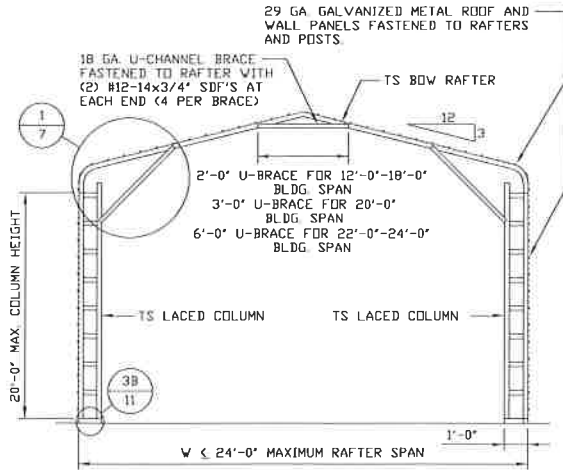
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**JOB NO:
16166S/18012S/18260S**

REV: 7

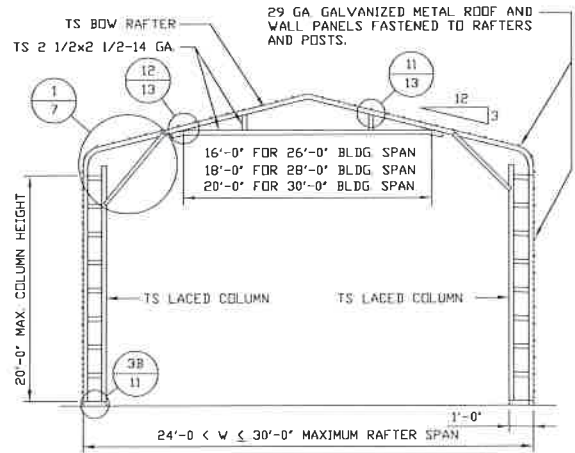
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EXPOSURE C



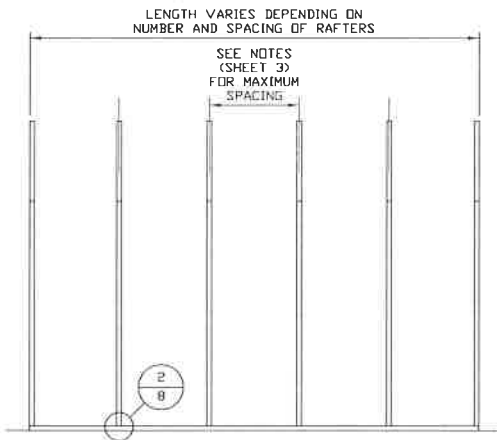
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

SHT. 6C

SCALE: NTS

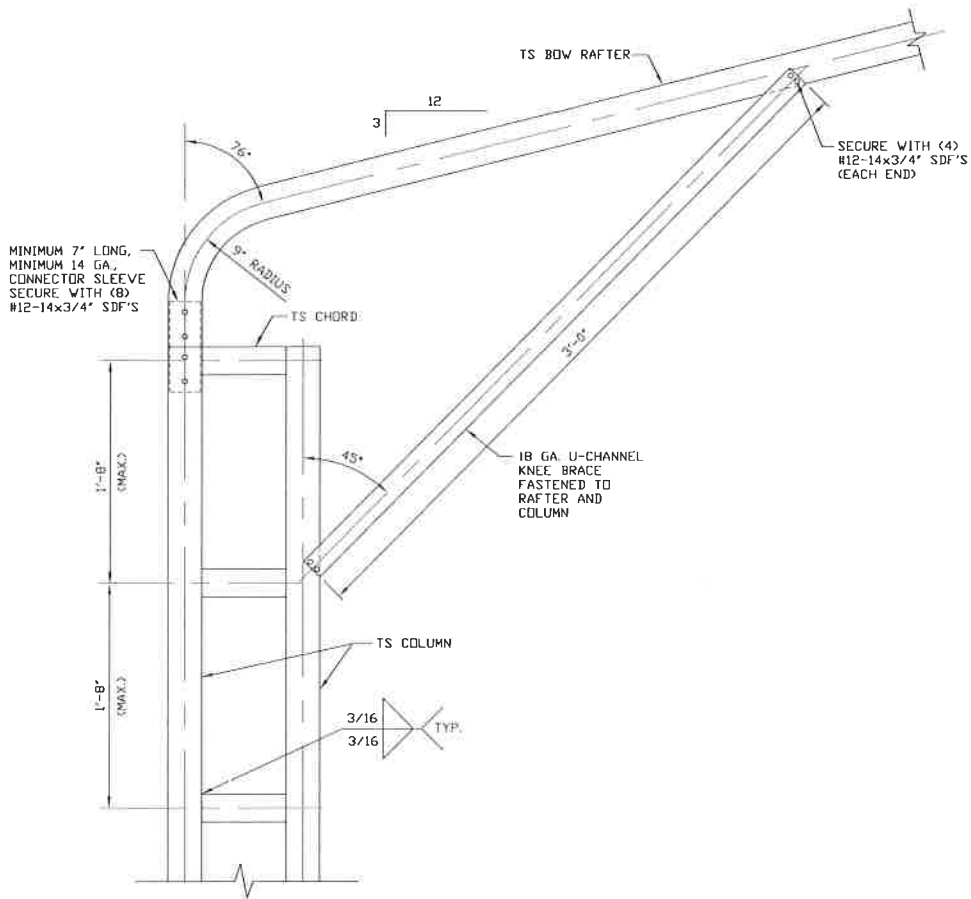
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**JOB NO:
16166S/18012S/18260S**

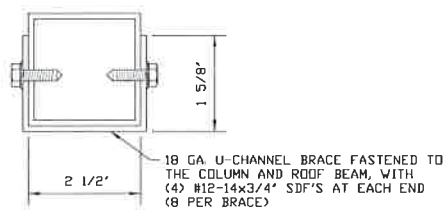
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EXPOSURE B



1A BOW RAFTER COLUMN CONNECTION DETAIL
FOR HEIGHTS 18'-0" < TO ≤ 20'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

SHT. 7A

SCALE: NTS

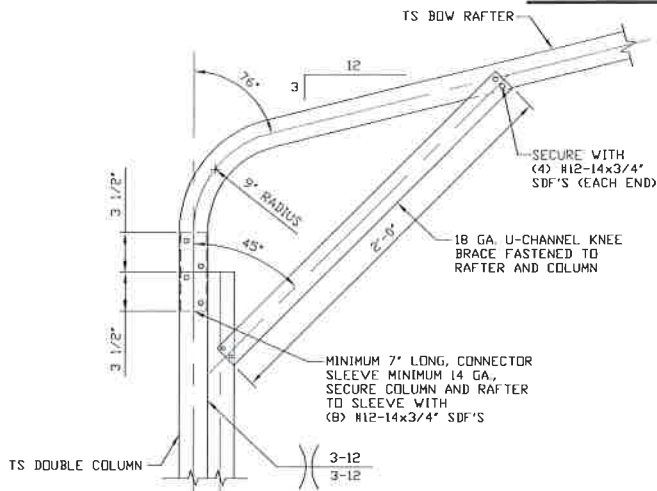
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**JOB NO:
16166S/18012S/18260S**

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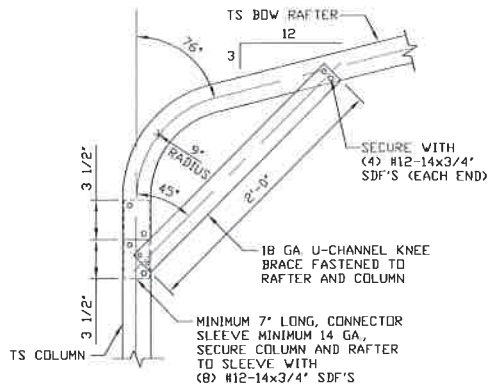
EXPOSURE B



1B

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO <= 18'-0"

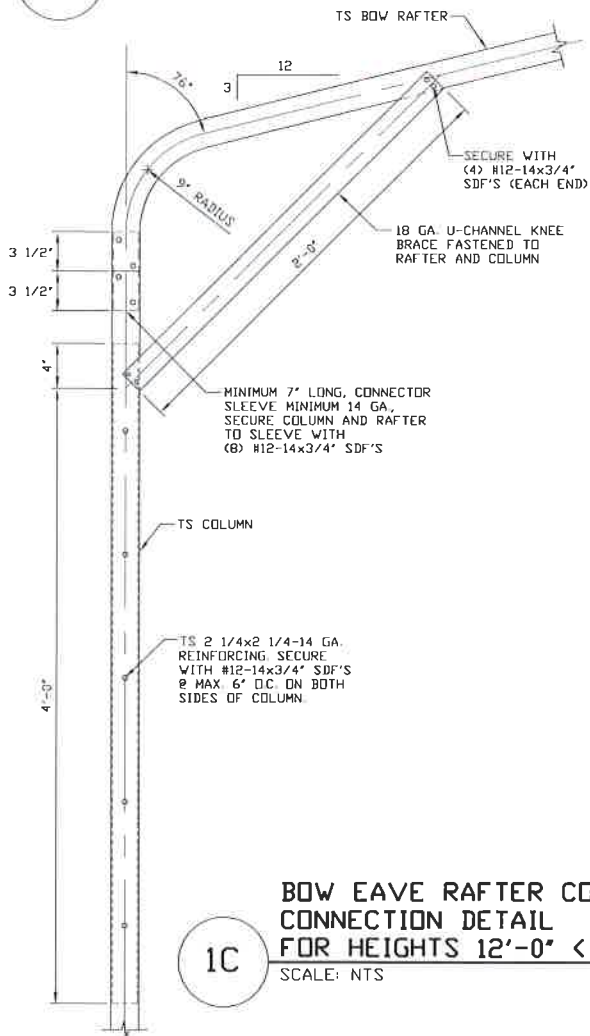
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1D

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 12'-0"

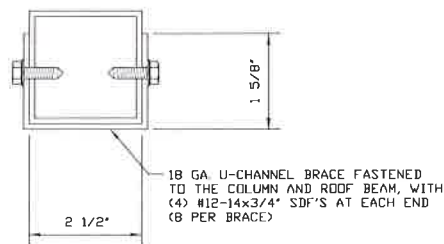
SCALE: NTS



1C

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 15'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30-0"x20-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 7B

SCALE: NTS

DWG. NO: SK-3

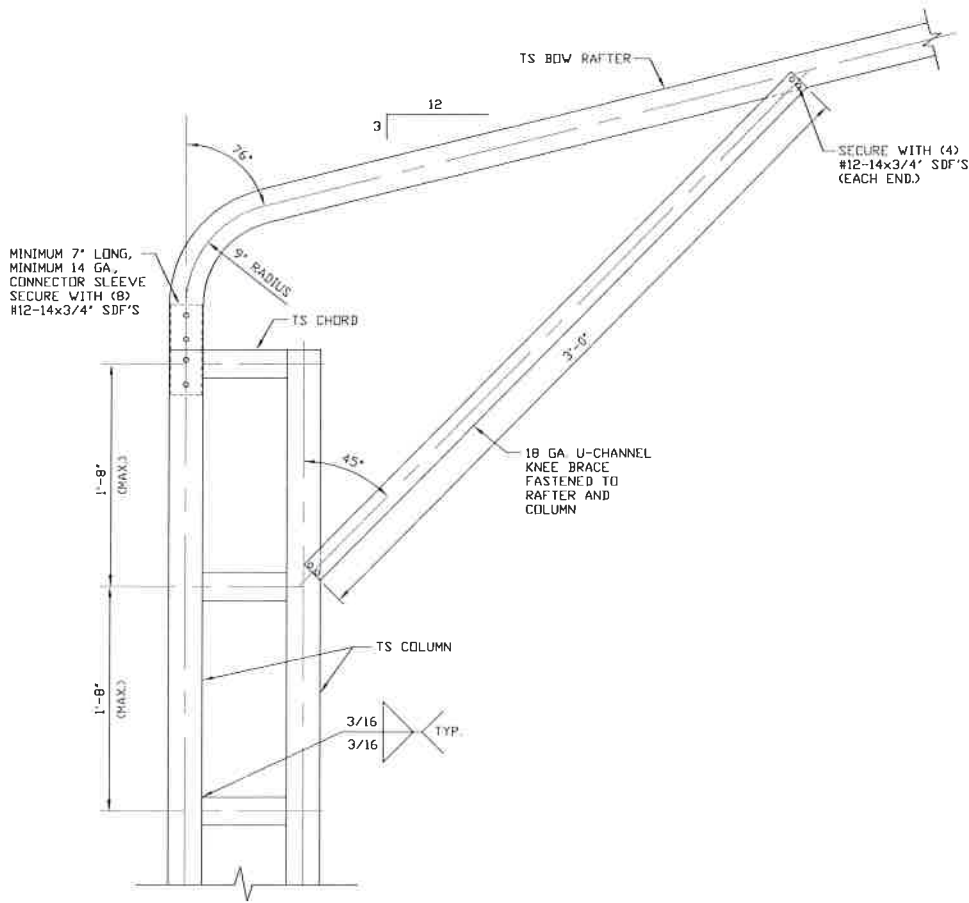
JOB NO:

16166S/18012S/18260S

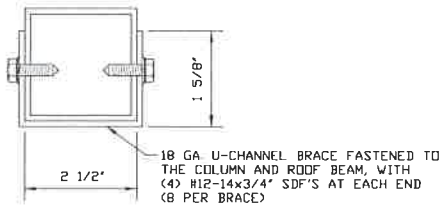
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EXPOSURE C



1E BOW EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 15'-0" < TO ≤ 20'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

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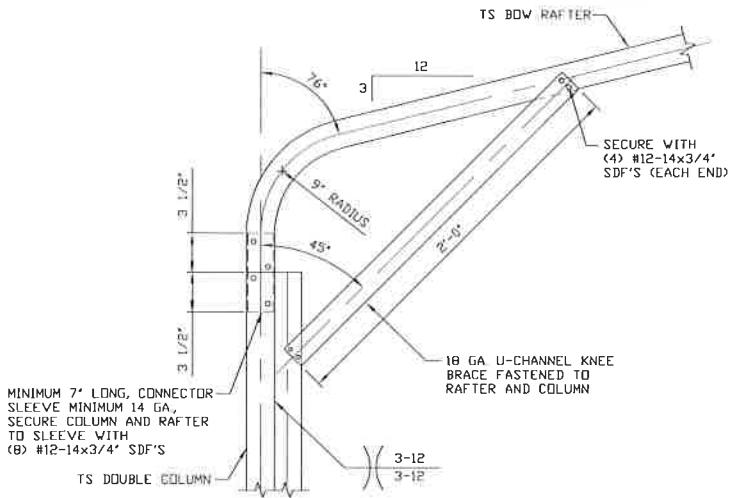
DRAWN BY: LT
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EAGLE CARPORTS
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 MOUNT AIRY, NC 27030
 30'-0"x20'-0" SP ENCLOSED STRUCTURE

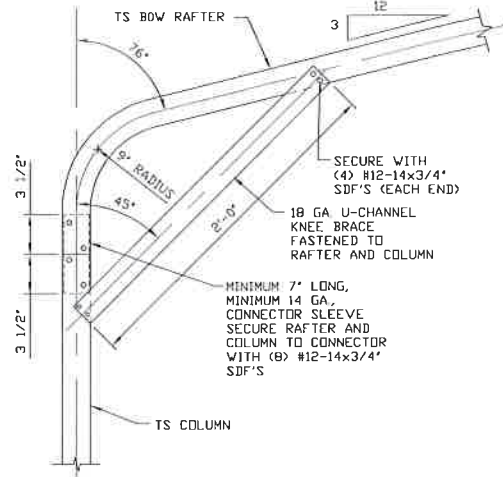
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PROJECT MGR: VSM	DATE: 12-7-18	SCALE: NTS	JOB NO: 16166S/18012S/18260S
CLIENT: EAGLE CARPORTS	SHT. 7C	DWG. NO: SK-3	REV: 7

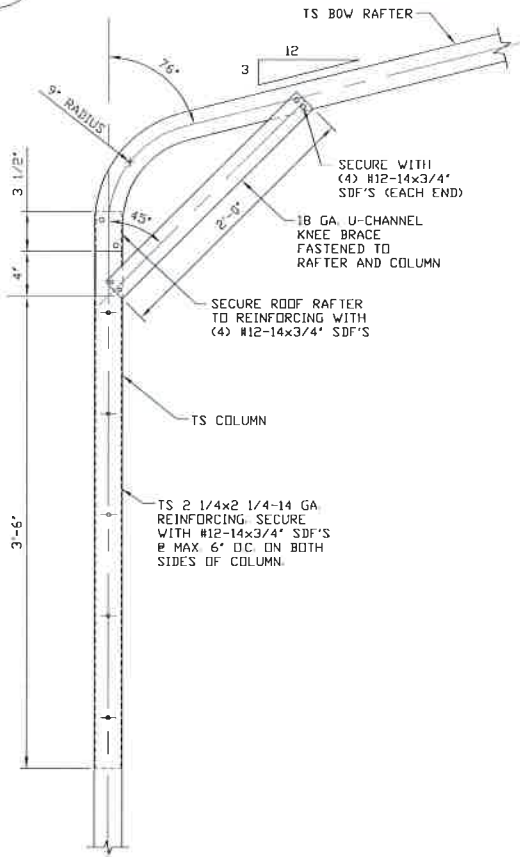
EXPOSURE C



1F
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO <= 15'-0"
 SCALE: NTS



1H
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 9'-0"
 SCALE: NTS



1G
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO <= 13'-0"
 SCALE: NTS

BRACE SECTION
 SCALE: NTS

MOORE AND ASSOCIATES
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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
 210 AIRPORT ROAD
 MOUNT AIRY, NC 27030
 30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 7D

SCALE: NTS

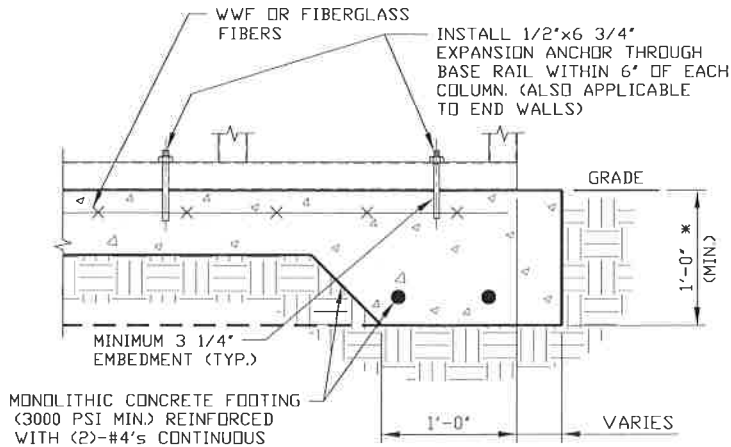
DWG. NO: SK-3

JOB NO:
 16166S/18012S/18260S

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BASE RAIL ANCHORAGE OPTIONS

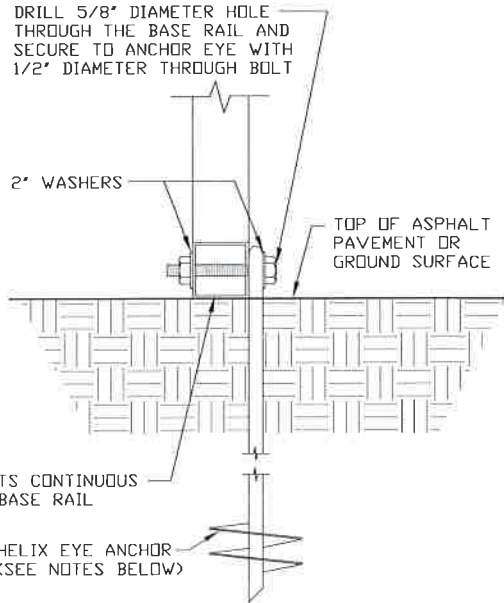


2A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL BUILDING CODE
AND/OR BUILDING OFFICIAL REGARDING
REQUIRED FOOTING DEPTH.



2B

GROUND BASE HELIX 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.

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
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.

**MOORE AND ASSOCIATES
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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 8

SCALE: NTS

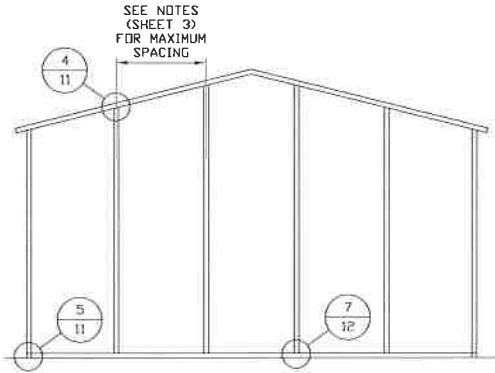
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**JOB NO:
16166S/18012S/18260S**

REV: 7

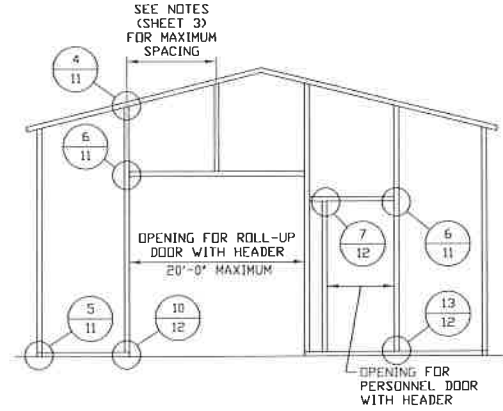
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



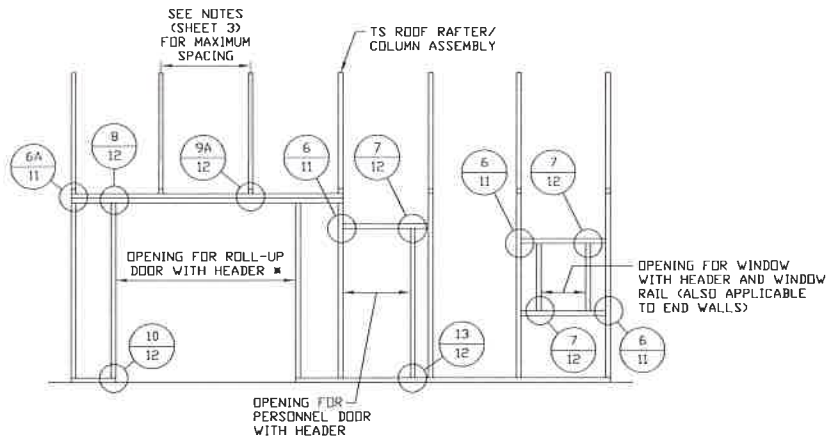
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

* SEE SHEET 16 FOR MAXIMUM SPAN

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ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SCALE: NTS

**JOB NO:
16166S/18012S/18260S**

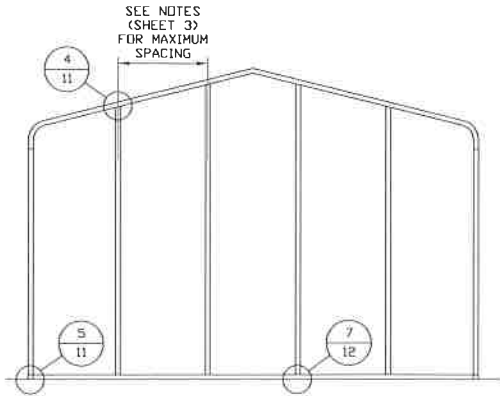
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DWG. NO: SK-3

REV: 7

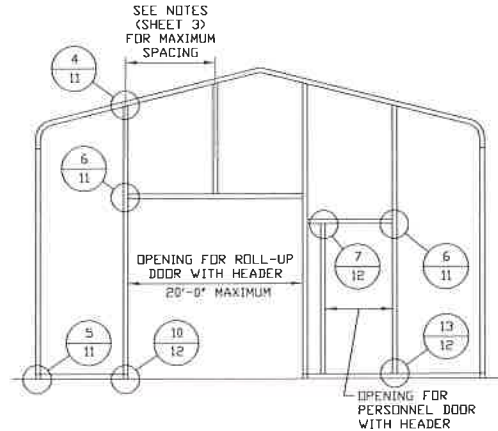
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



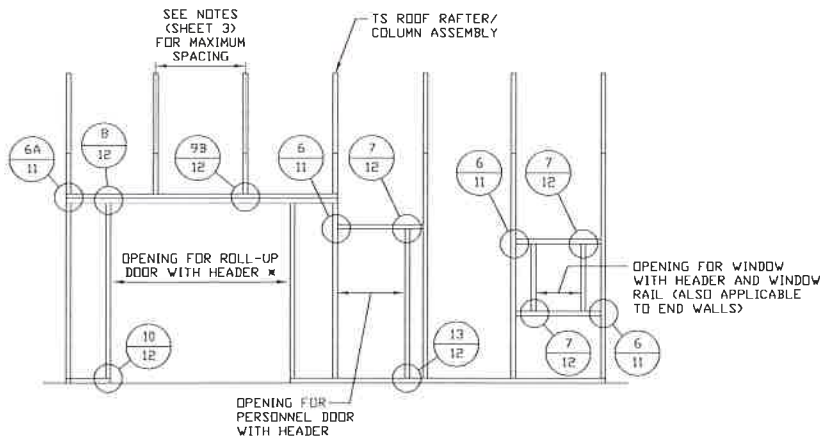
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER SIDE
WALL OPENINGS FRAMING SECTION**

SCALE: NTS

* SEE SHEET 16 FOR MAXIMUM SPAN

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

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210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

SHT. 10

SCALE: NTS

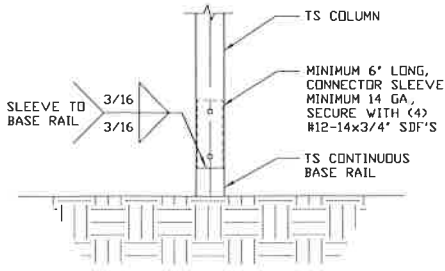
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**JOB NO:
16166S/18012S/18260S**

REV.: 7

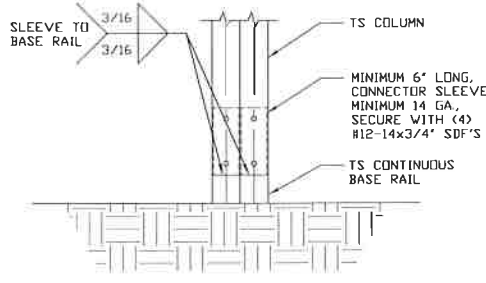
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CONNECTION DETAILS



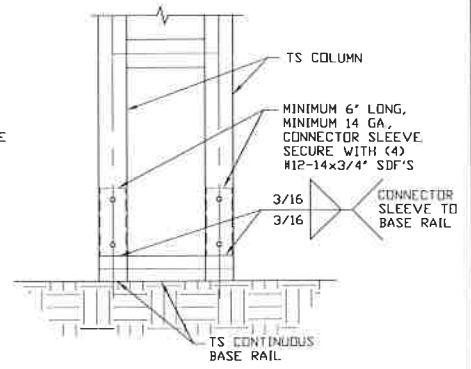
3
**RAFTER COLUMN/
 BASE RAIL
 CONNECTION DETAIL**

SCALE: NTS



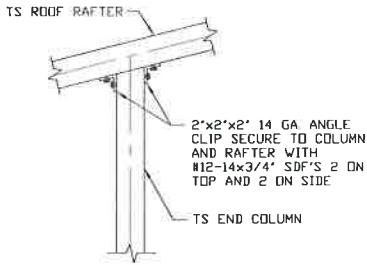
3A
**RAFTER COLUMN/
 BASE RAIL
 CONNECTION DETAIL**

SCALE: NTS



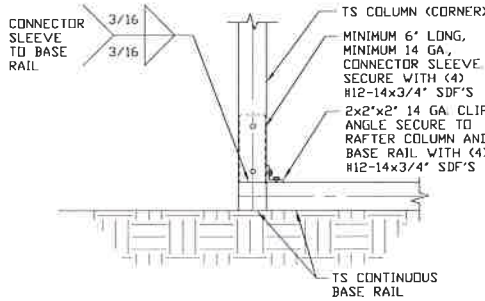
3B
**RAFTER COLUMN/
 BASE RAIL
 CONNECTION DETAIL**

SCALE: NTS



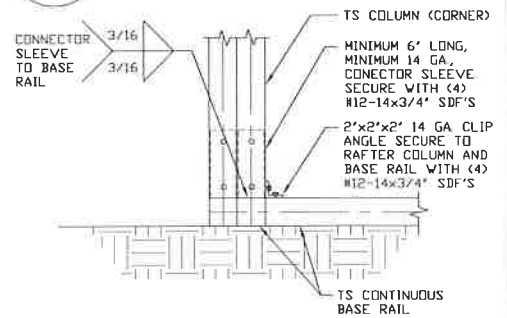
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**END COLUMN/RAFTER
 CONNECTION DETAIL**

SCALE: NTS



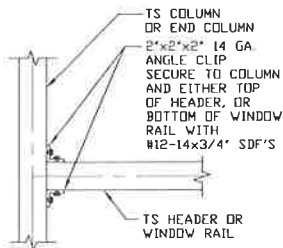
5
**END COLUMN/BASE RAIL
 CONNECTION DETAIL**

SCALE: NTS



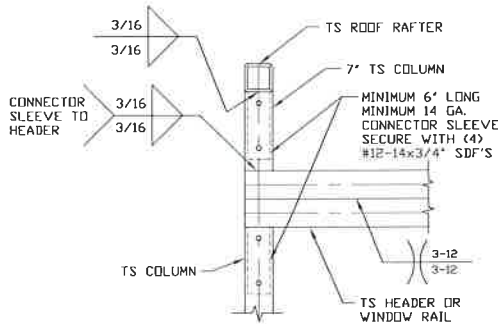
5A
**END COLUMN/BASE RAIL
 CONNECTION DETAIL**

SCALE: NTS



6
**COLUMN OR WINDOW
 RAIL TO POST
 CONNECTION DETAIL**

SCALE: NTS



6A
**COLUMN OR WINDOW
 RAIL TO POST
 CONNECTION DETAIL**

SCALE: NTS

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 ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
 210 AIRPORT ROAD
 MOUNT AIRY, NC 27030
 30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

SHT. 11

SCALE: NTS

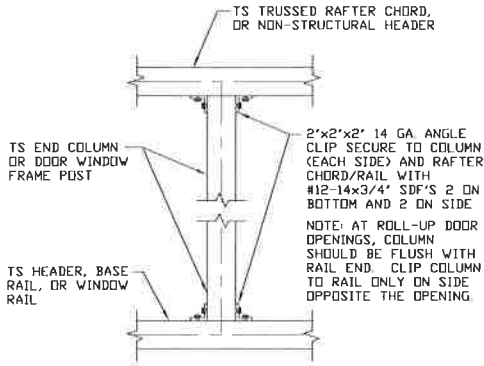
DWG. NO: SK-3

**JOB NO:
 16166S/18012S/18260S**

REV: 7

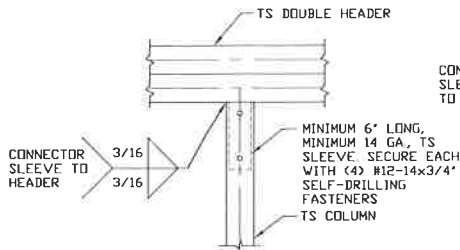
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CONNECTION DETAILS



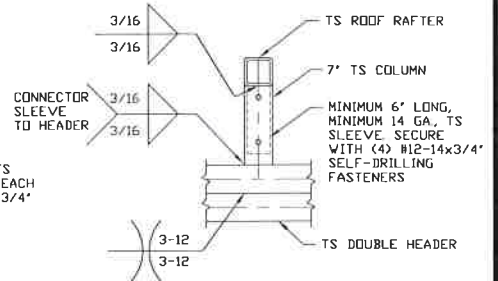
7 COLUMN TO WINDOW RAIL CONNECTION DETAIL

SCALE: NTS



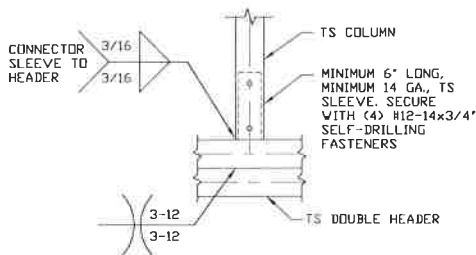
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL

SCALE: NTS



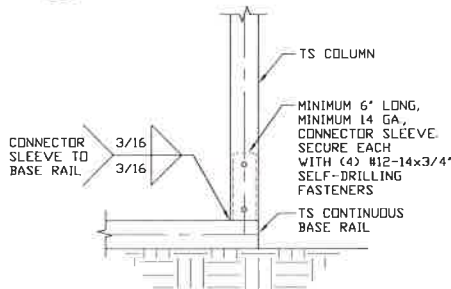
9A COLUMN/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS



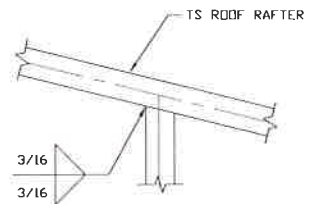
9B COLUMN/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS



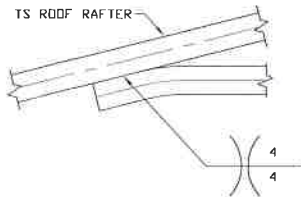
10 COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



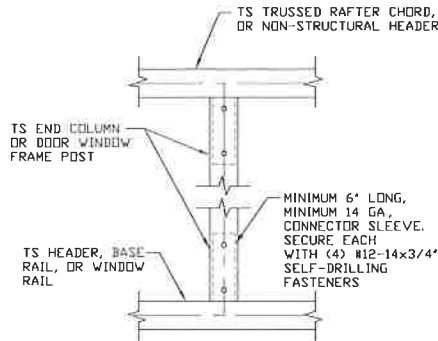
11 RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL

SCALE: NTS



13 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 12

SCALE: NTS

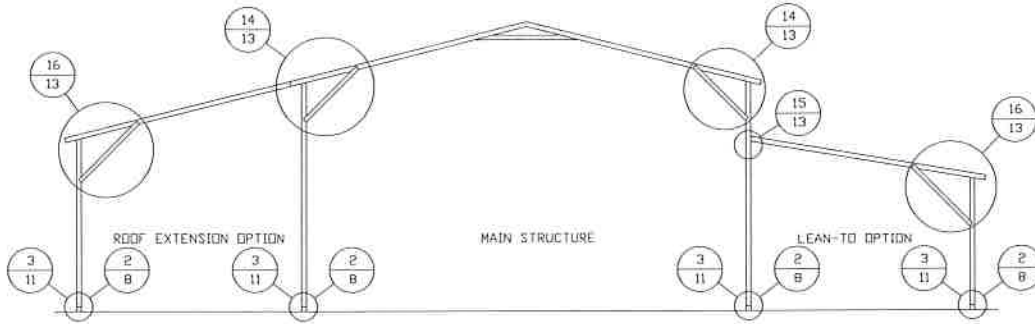
DWG. NO: SK-3

JOB NO:
16166S/18012S/18260S

REV: 7

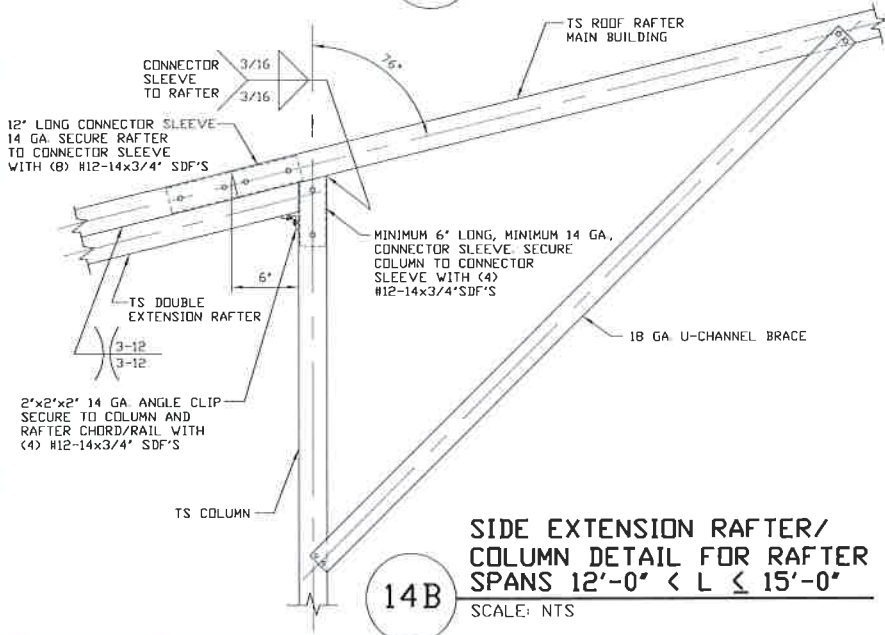
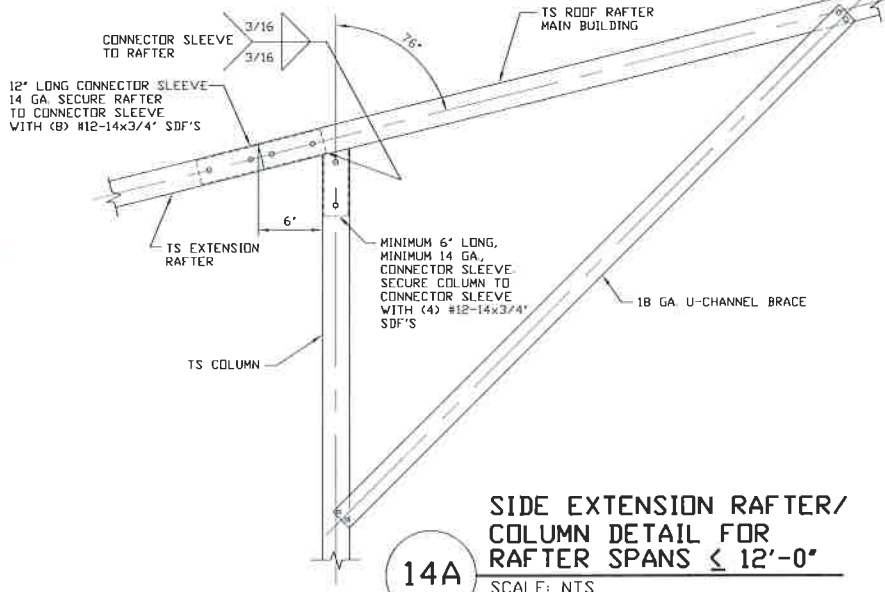
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BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS
 MAXIMUM WIDTH OF ROOF EXTENSION OR LEAN-TO IS 15'-0"



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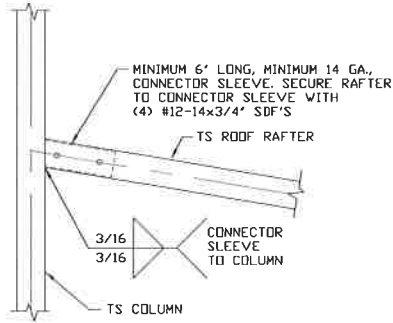
DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
 210 AIRPORT ROAD
 MOUNT AIRY, NC 27030
 30'-0" x 20'-0" SP ENCLOSED STRUCTURE

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DATE: 12-7-18	SCALE: NTS	JOB NO: 16166S/18012S/18260S
SHT. 13	DWG. NO: SK-3	REV: 7

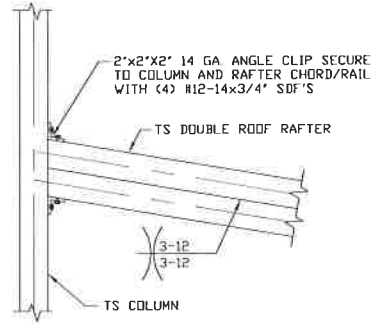
BOX EAVE RAFTER LEAN-TO OPTIONS



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS $\leq 12'-0''$**

15A

SCALE: NTS



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS $12'-0'' < L \leq 15'-0''$**

15B

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SCALE: NTS

JOB NO:

16166S/18012S/18260S

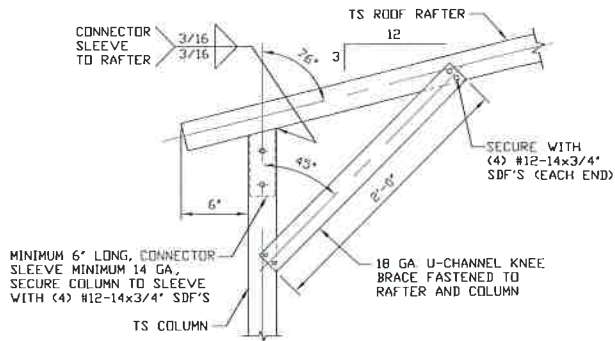
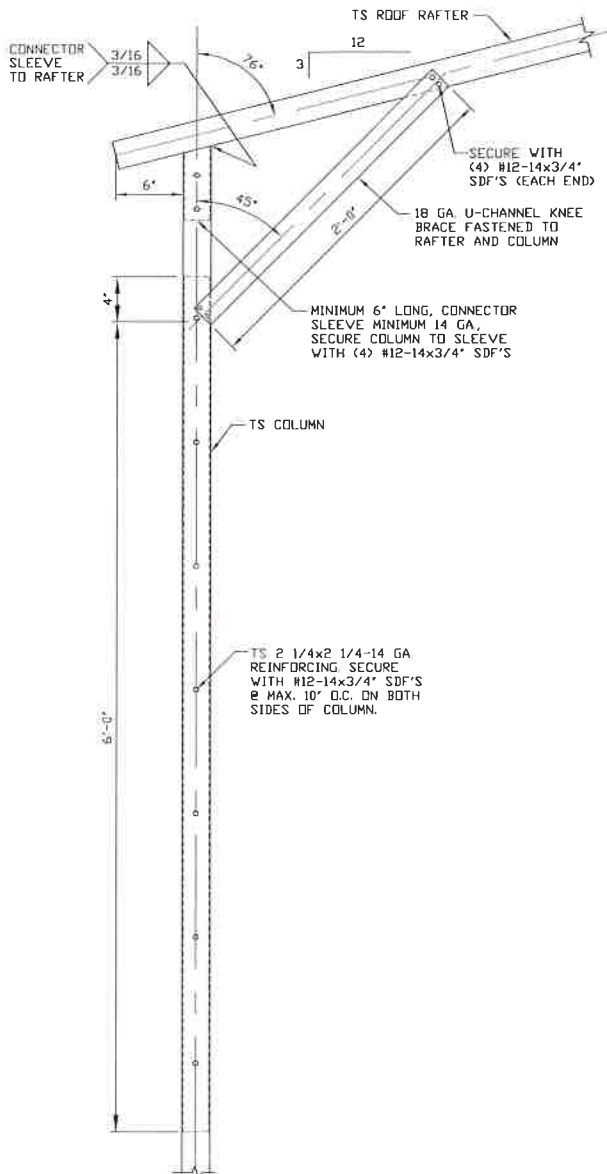
SHT. 13A

DWG. NO: SK-3

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BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE B

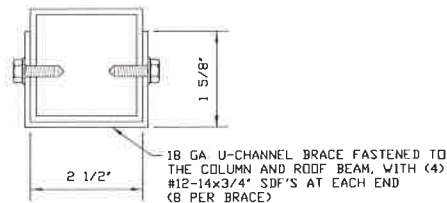


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $\leq 14'-0"$

16B

SCALE: NTS

HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)



BRACE SECTION

SCALE: NTS

16A

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $14'-0" < TO \leq 20'-0"$

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 13B

SCALE: NTS

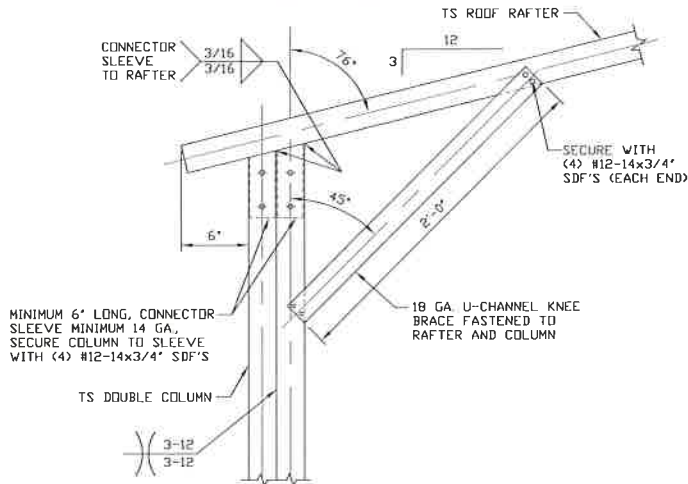
DWG. NO: SK-3

**JOB NO:
16166S/18012S/18260S**

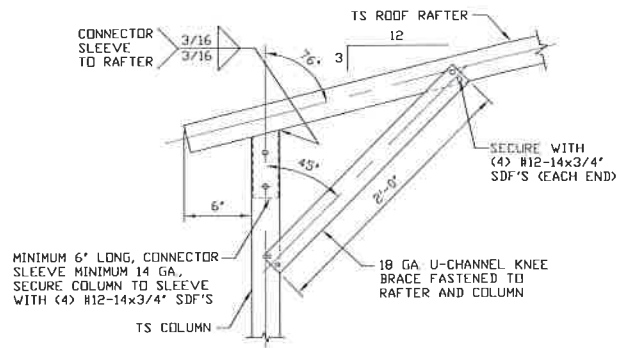
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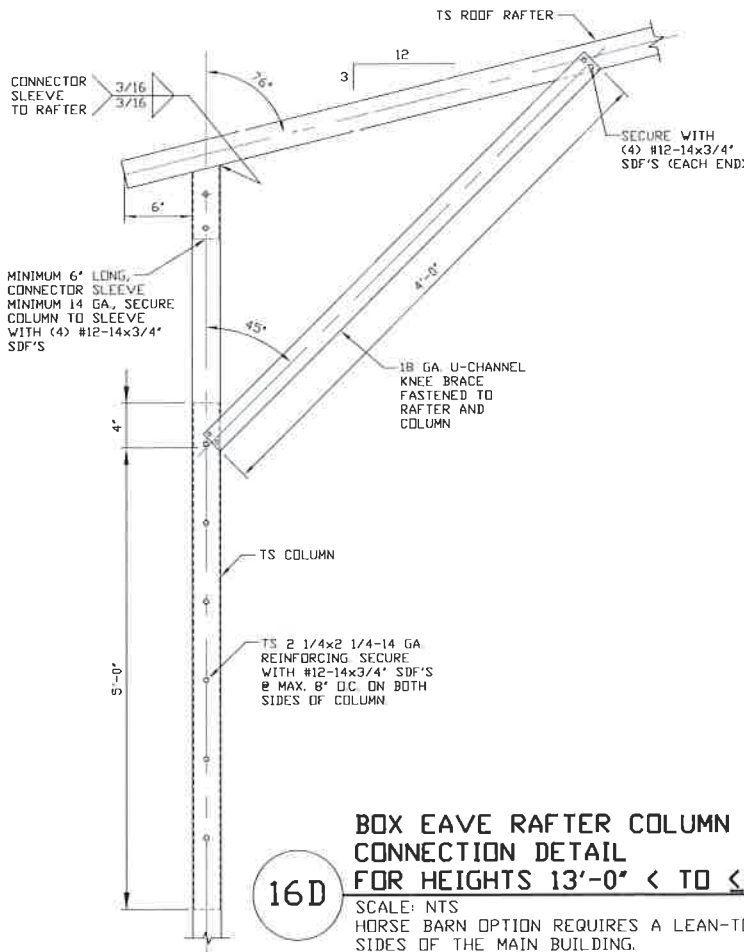
BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



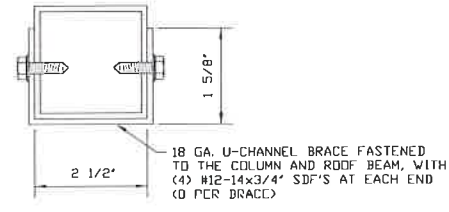
16C
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 18'-0" < TO ≤ 20'-0"
 SCALE: NTS
 HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.



16E
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 13'-0"
 SCALE: NTS
 HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)



16D
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 18'-0"
 SCALE: NTS
 HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.



BRACE SECTION
 SCALE: NTS

**MOORE AND ASSOCIATES
 ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
 210 AIRPORT ROAD
 MOUNT AIRY, NC 27030
 30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

SHT. 13C

SCALE: NTS

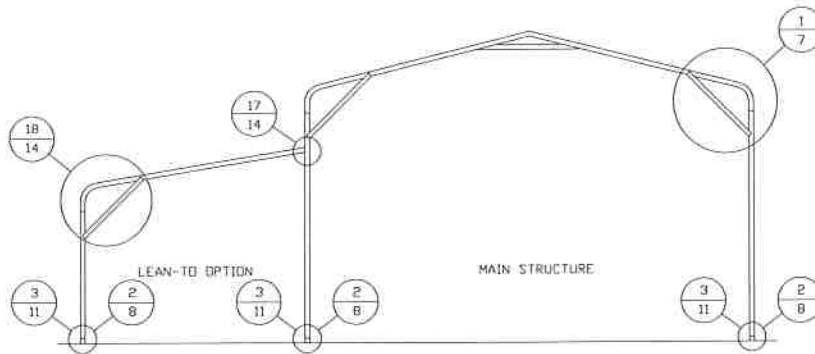
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**JOB NO:
 16166S/18012S/18260S**

REV: 7

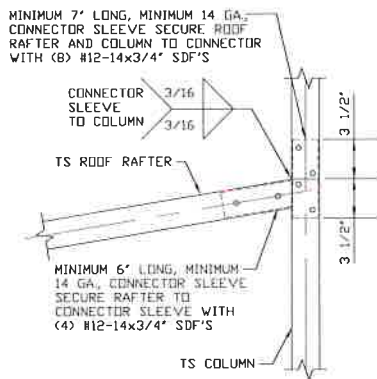
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BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

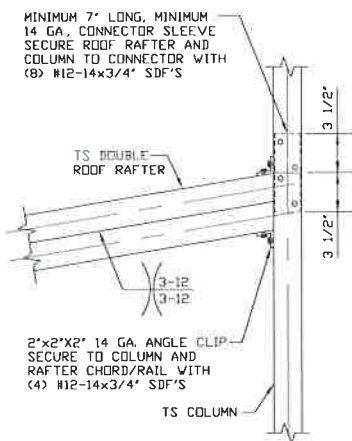
SCALE: NTS
 MAXIMUM WIDTH OF LEAN-TO IS 15'-0".



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

17A

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < L < 15'-0"$

17B

SCALE: NTS

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 ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
 210 AIRPORT ROAD
 MOUNT AIRY, NC 27030
 30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 14

SCALE: NTS

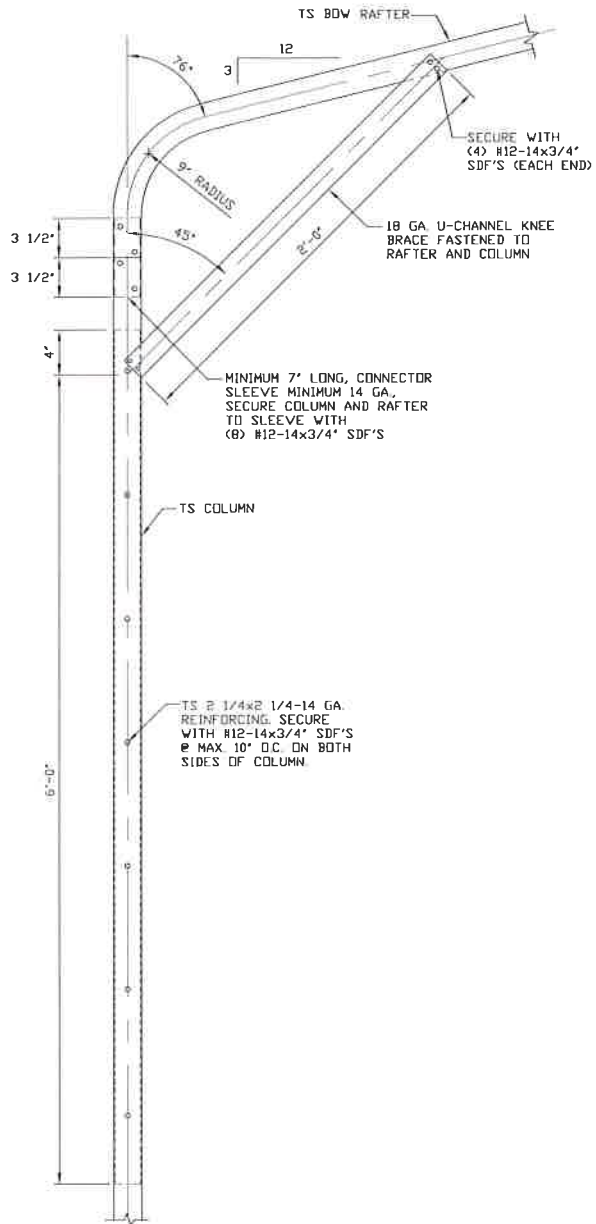
DWG. NO: SK-3

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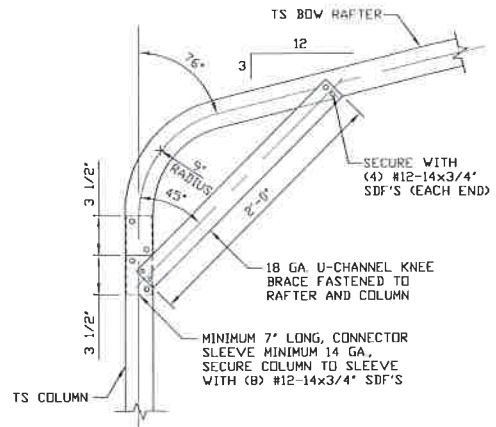
BOW RAFTER LEAN-TO OPTION - EXPOSURE B



18A

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 20'-0"

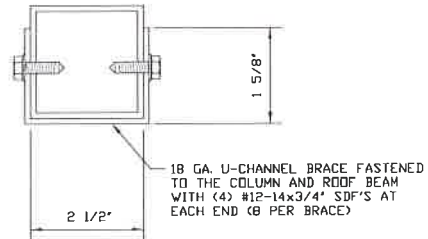
SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.



18B

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 14'-0"

SCALE: NTS
HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)



BRACE SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 14A

SCALE: NTS

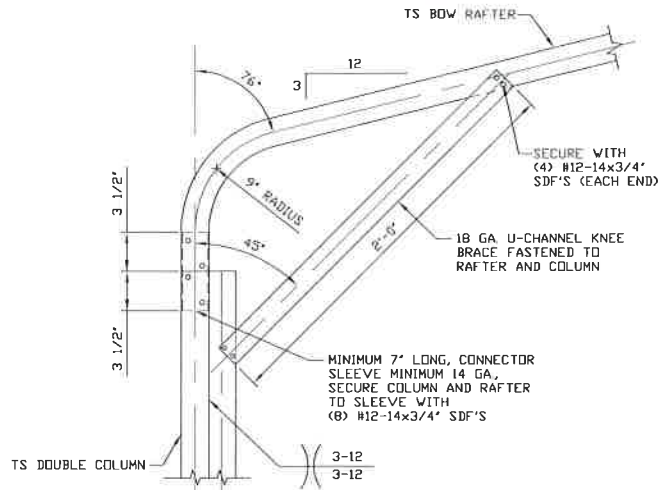
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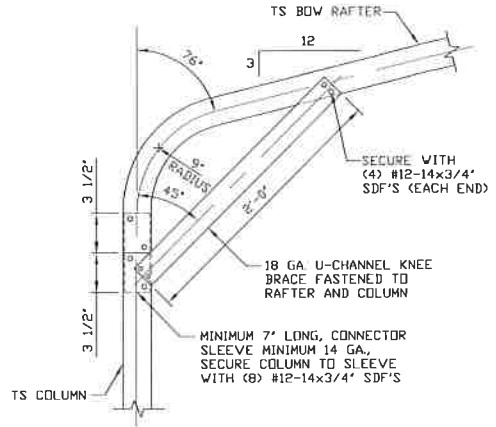
BOW RAFTER LEAN-TO OPTION - EXPOSURE C



18C

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 18'-0" < TO <= 20'-0"

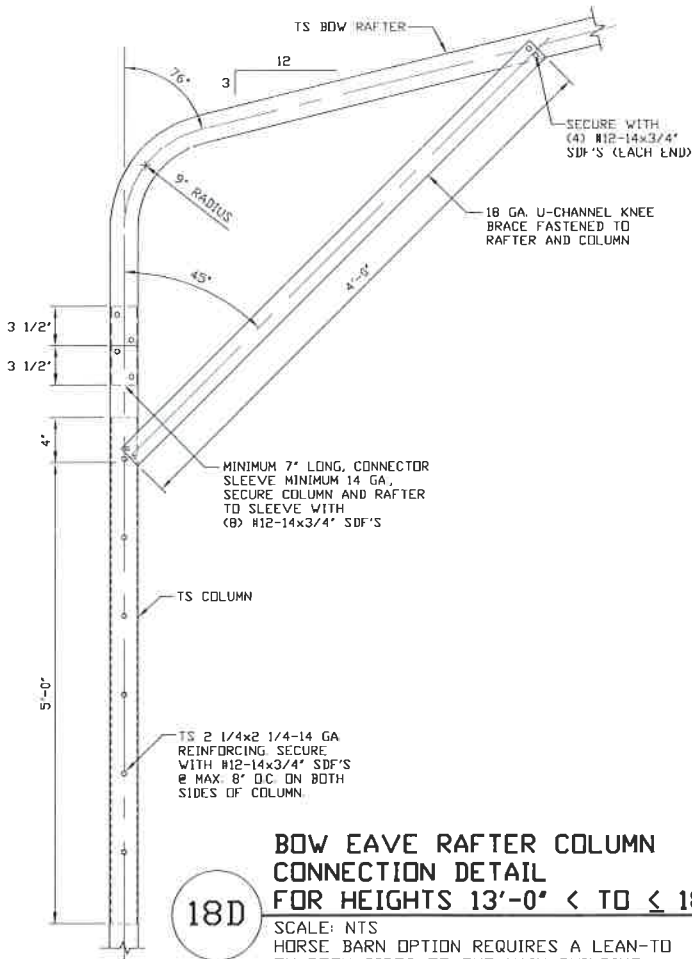
SCALE: NTS
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18E

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 13'-0"

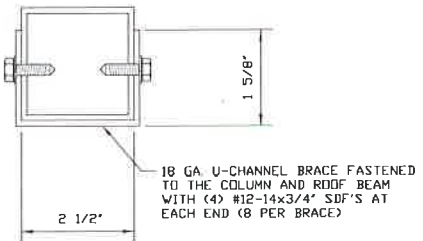
SCALE: NTS
HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



18D

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO <= 18'-0"

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.



BRACE SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SHT. 14B

SCALE: NTS

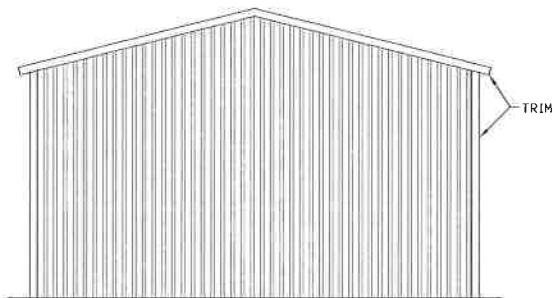
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JOB NO:
16166S/18012S/18260S

REV: 7

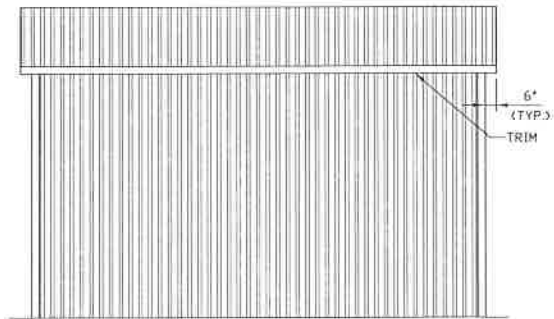
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



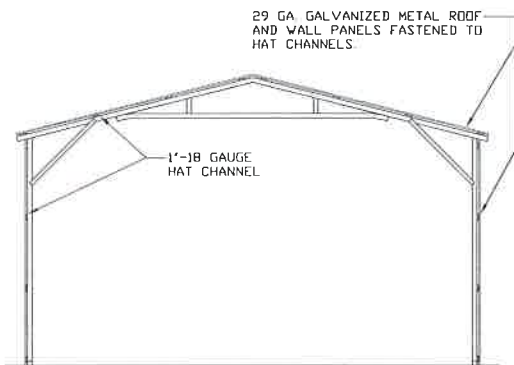
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



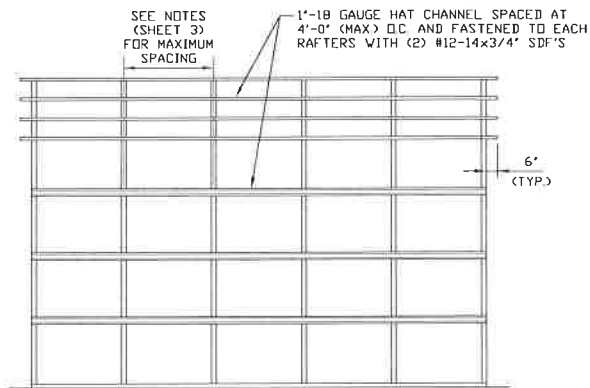
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



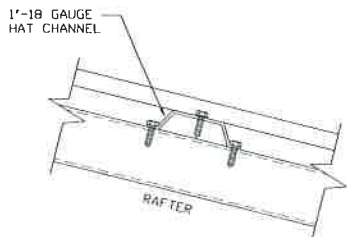
**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**

SCALE: NTS



**TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-7-18

SCALE: NTS

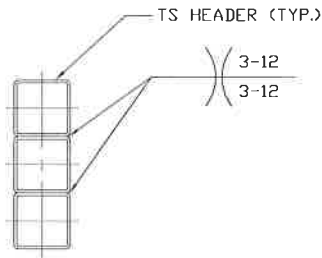
DWG. NO: SK-3

**JOB NO:
16166S/18012S/18260S**

REV: 7

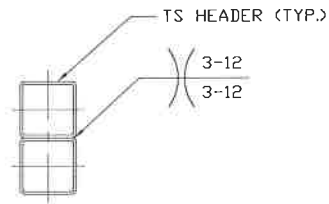
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SIDE WALL HEADER OPTIONS



**HEADER DETAIL FOR
12'-0" < LENGTHS < 16'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTHS < 12'-0"**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-7-18

SHT. 16

SCALE: NTS

DWG. NO: SK-3

**JOB NO:
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