

**Eagle Carports**

*"Flying High with Great Deals"*



**STRUCTURAL DESIGN**

**FULLY OPEN (CARPORT) BUILDING**

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

**23 December 2019**

**Revision 8**

**M&A Project No. 16166S/17207S/17293S/18012S/18260S/19320S**

**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, Suite 200  
Mount Airy, NC 27030**



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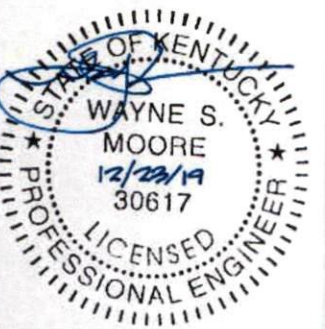
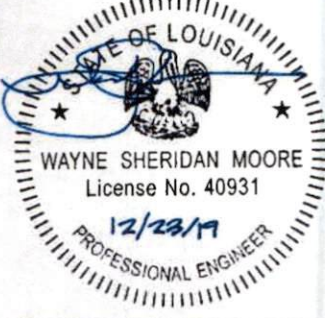

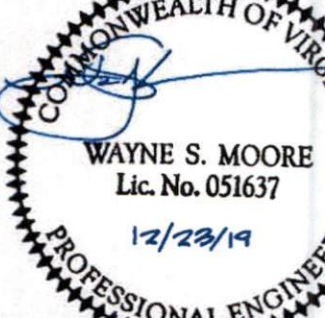



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DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP FULLY OPEN STRUCTURE		
CHECKED BY: PDH	PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS JOB NO: 16166S/ 18012S/18260S/19320S
CLIENT: EAGLE CARPORTS	SHT. 1	DWG. NO SK-1	REV: 8

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	<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>		
	<p><b>Professional Certification</b> 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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# 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 4	TYPICAL SIDE AND END ELEVATIONS
SHEET 5	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 5A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 6	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET 6A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET 7	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTIONS (BOW EAVE RAFTER)
SHEET 7A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTIONS (BOW EAVE RAFTER)
SHEET 8	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING CONNECTION DETAILS (BOW EAVE RAFTER)
SHEET 8A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING CONNECTION DETAILS (BOW EAVE RAFTER)
SHEET 9	BASE RAIL ANCHORAGE OPTIONS
SHEET 10	BOX EAVE RAFTER GABLE END OPTION
SHEET 11	BOW EAVE RAFTER GABLE END OPTION
SHEET 12	CONNECTION DETAILS
SHEET 13	LEAN-TO OPTION (BOX EAVE RAFTER)
SHEET 13A	LEAN-TO OPTION (BOX EAVE RAFTER)
SHEET 13B	LEAN-TO OPTION (BOX EAVE RAFTER) (EXPOSURE B)
SHEET 13C	LEAN-TO OPTION (BOX EAVE RAFTER) (EXPOSURE C)
SHEET 14	LEAN-TO OPTION (BOW RAFTER)
SHEET 14A	LEAN-TO OPTION (BOW RAFTER) (EXPOSURE B)
SHEET 14B	LEAN-TO OPTION (BOW RAFTER) (EXPOSURE C)
SHEET 15	BOX EAVE RAFTER EXTRA SIDE PANEL OPTION
SHEET 16	BOW EAVE RAFTER EXTRA SIDE PANEL OPTION
SHEET 17	VERTICAL ROOF OPTION END AND SIDE ELEVATION AND SECTIONS

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## INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT OPEN CARPORT 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, 2015 IBC AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
  - A) DEAD LOAD = 15 PSF
  - B) LIVE LOAD = 12 PSF
  - C) GROUND SNOW LOAD = 35 PSF
 NOTE: DIFFERENTIAL LOADING DUE TO SNOW DRIFTING NOT ANALYZED
4. 3-SECOND GUST ULTIMATE WIND SPEED ( $V_{ULT}$ ) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH)
5. MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS 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 1/2"x2 1/2"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS.
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10" O.C. (MAX)
11. 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. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
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 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
  - 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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**CLIENT: EAGLE CARPORTS**

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210 AIRPORT ROAD  
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30'-0"x20'-0" SP FULLY OPEN STRUCTURE**

**DATE: 12-23-19**

**SHT. 3**

**SCALE: NTS**

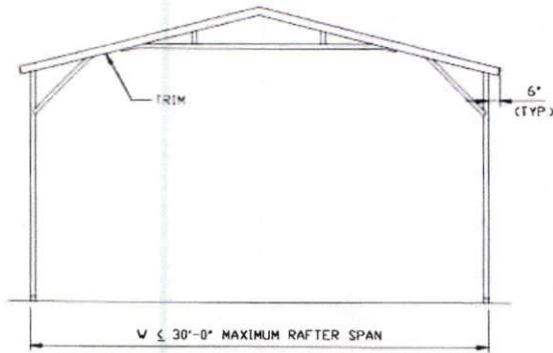
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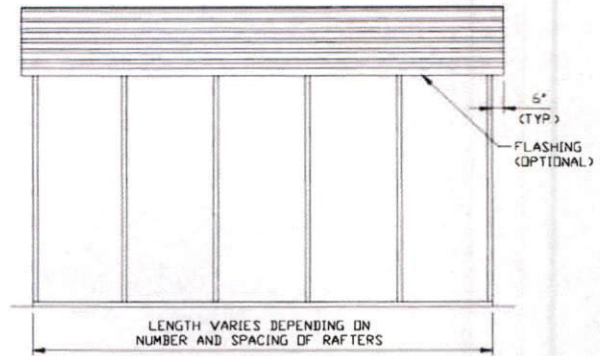
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**BOX EAVE FRAME RAFTER STRUCTURE**



**TYPICAL END ELEVATION**

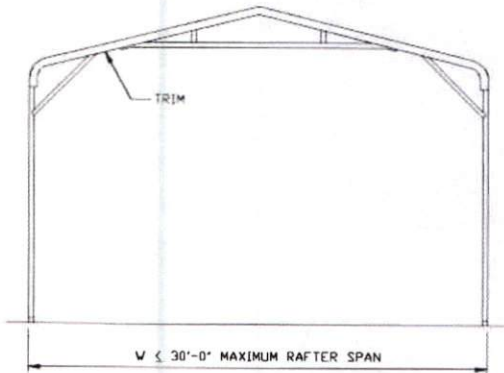
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**TYPICAL SIDE ELEVATION**

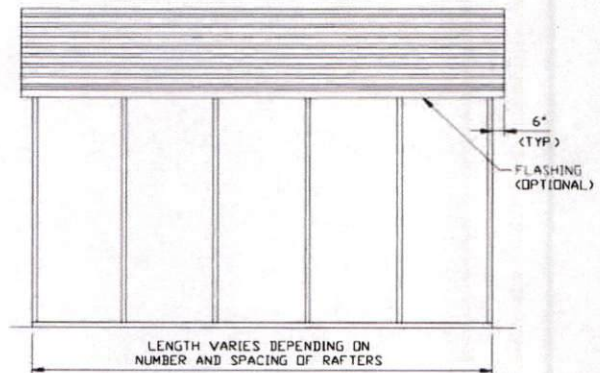
SCALE: NTS

**BOW EAVE FRAME RAFTER STRUCTURE**



**TYPICAL END ELEVATION**

SCALE: NTS



**TYPICAL SIDE ELEVATION**

SCALE: NTS

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SHT. 4

SCALE: NTS

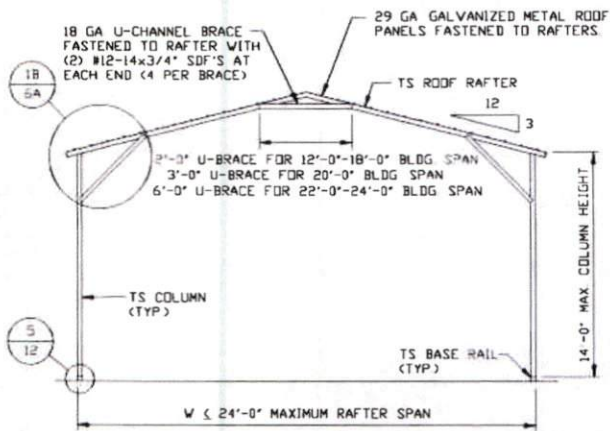
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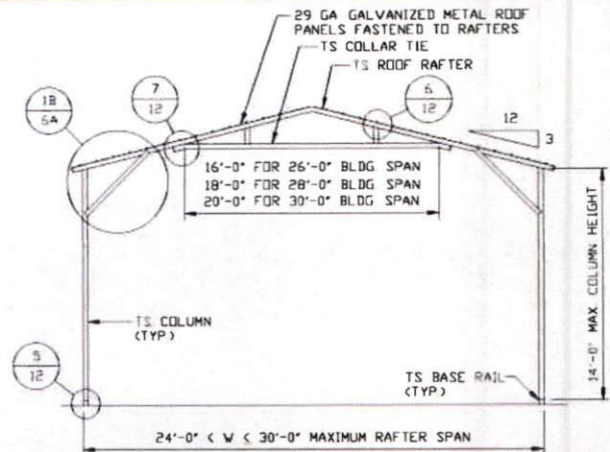
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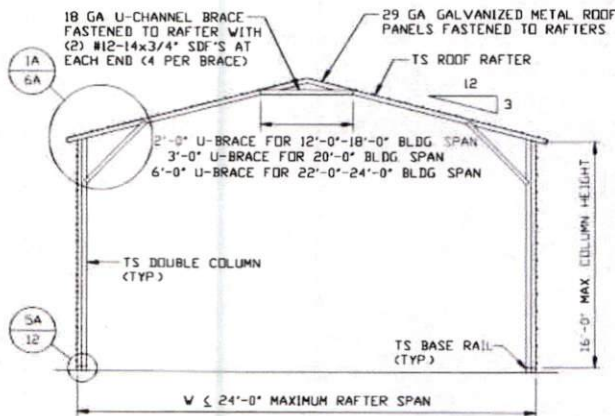
**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS



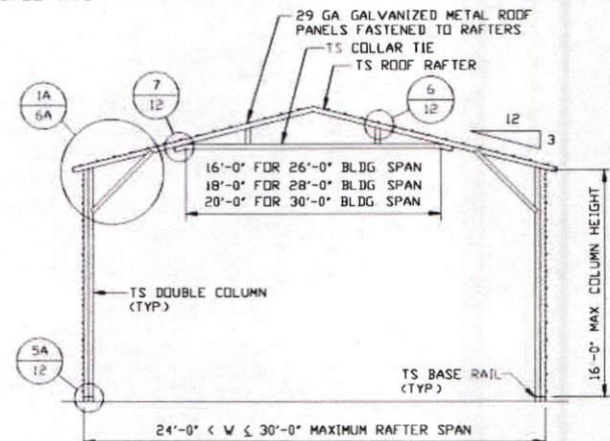
**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS

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SHT. 5

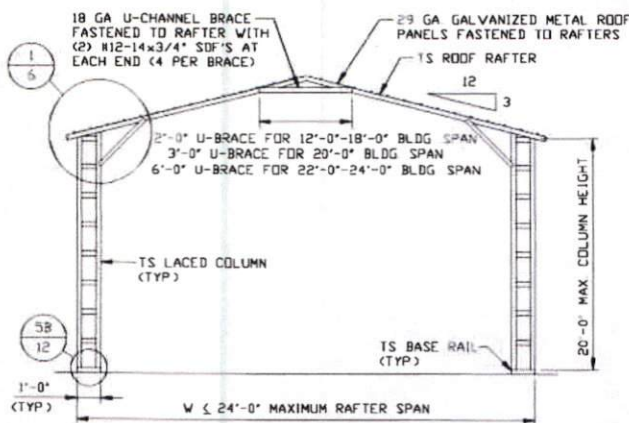
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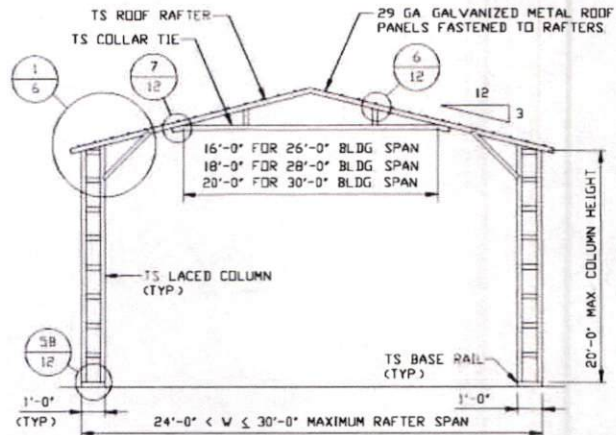
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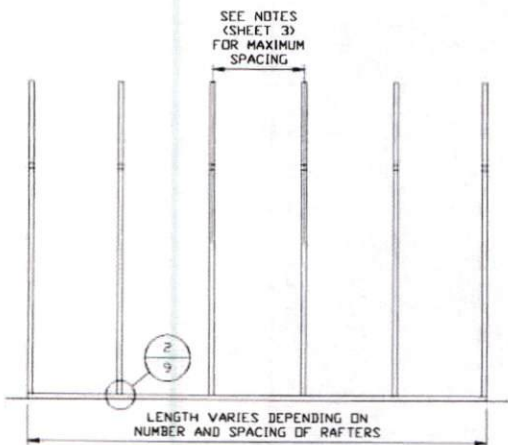
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SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**

SCALE: NTS

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SHT. 5A

SCALE: NTS

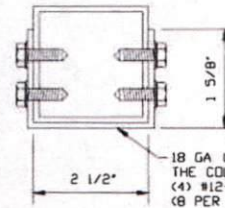
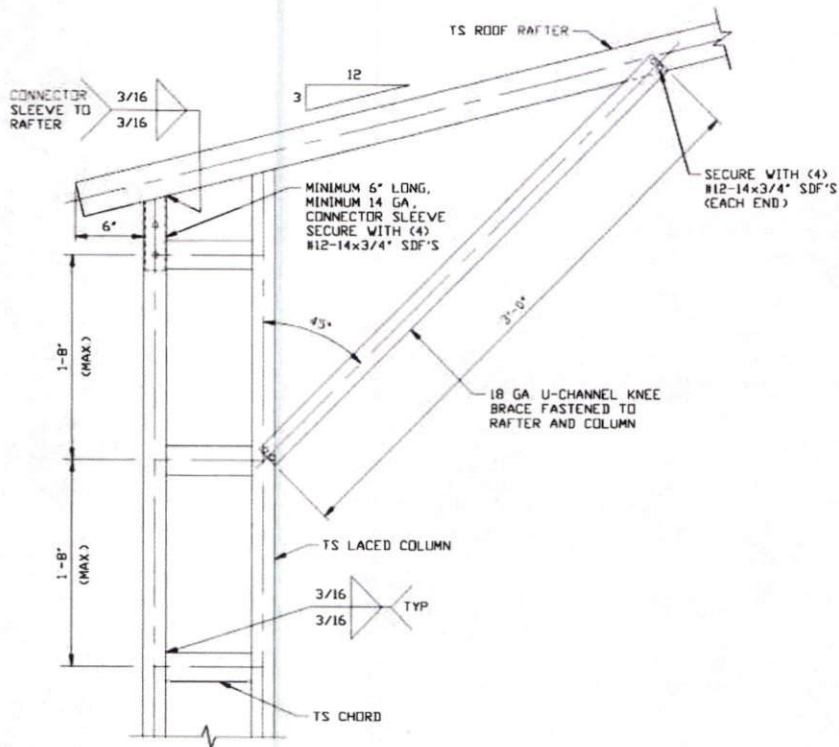
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**BRACE SECTION**  
SCALE: NTS

**BOX EAVE RAFTER COLUMN  
CONNECTION DETAIL FOR  
HEIGHTS 16'-0" < TO ≤ 20'-0"**  
SCALE: NTS

1

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SHT. 6

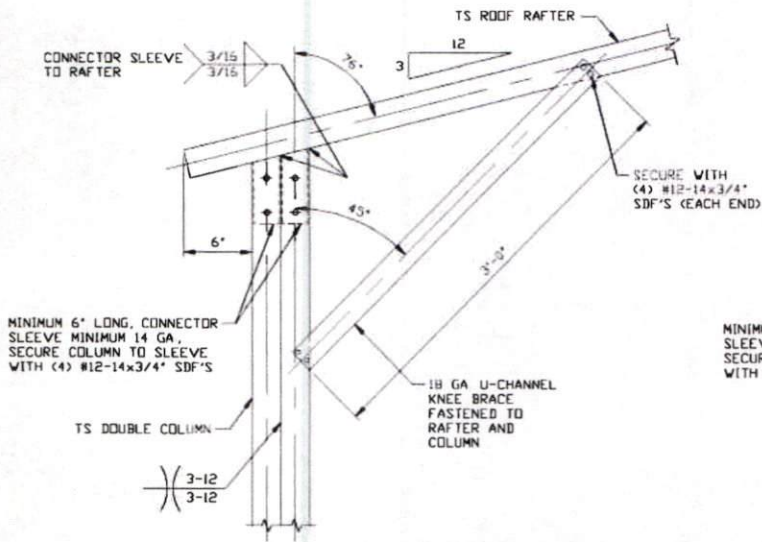
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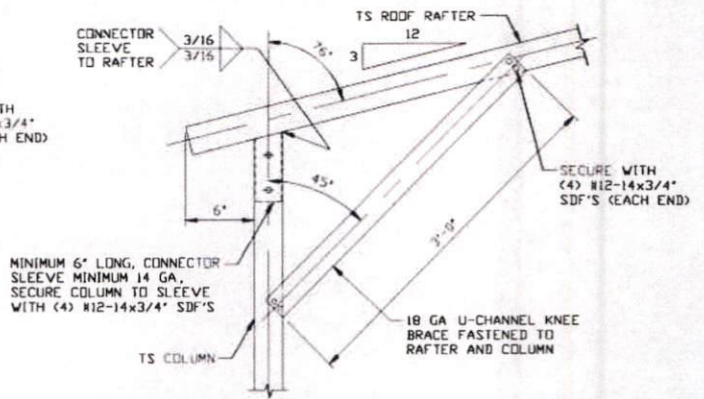
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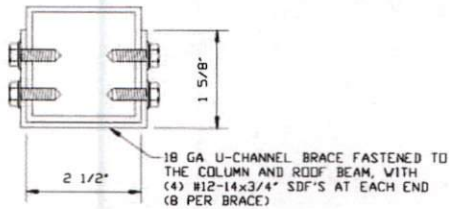
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**1A**  
**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 16'-0"**  
 SCALE: NTS



**1B**  
**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 14'-0"**  
 SCALE: NTS



**BRACE SECTION**  
 SCALE: NTS

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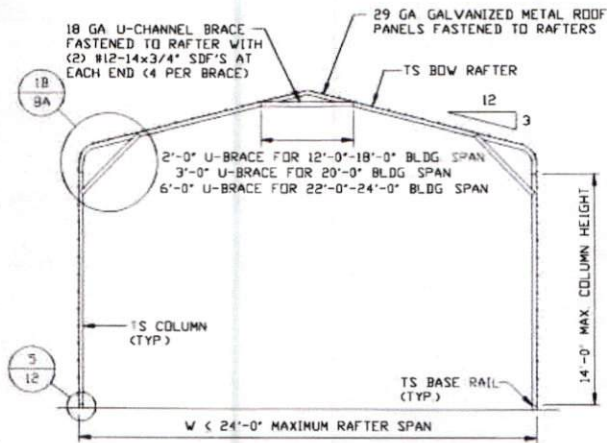
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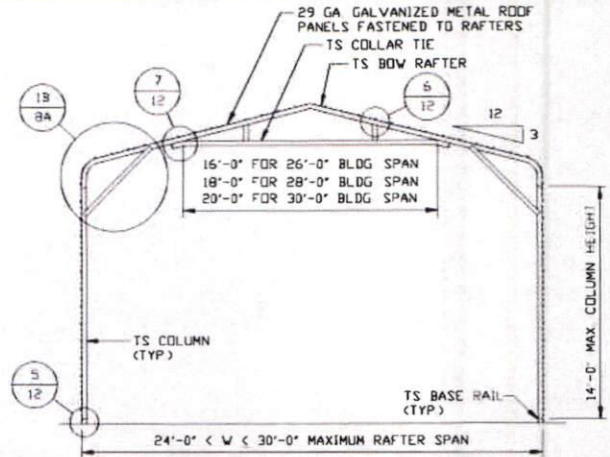
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**CLIENT: EAGLE CARPORTS**    **SHT. 6A**    **DWG. NO: SK-1**    **REV: 8**





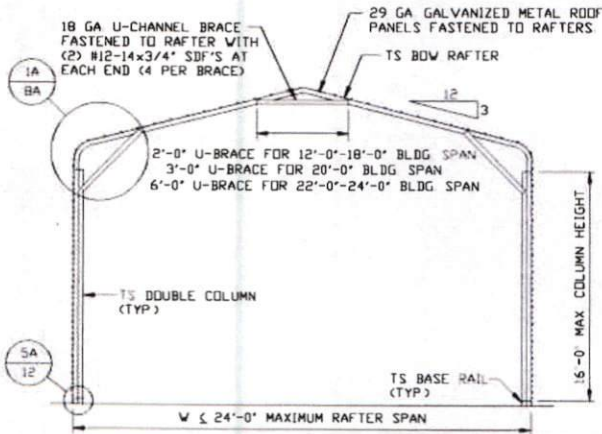
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SCALE: NTS



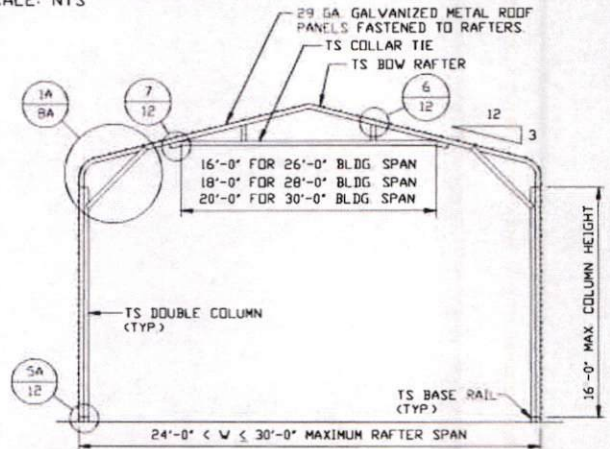
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SCALE: NTS



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SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS

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SHT. 7

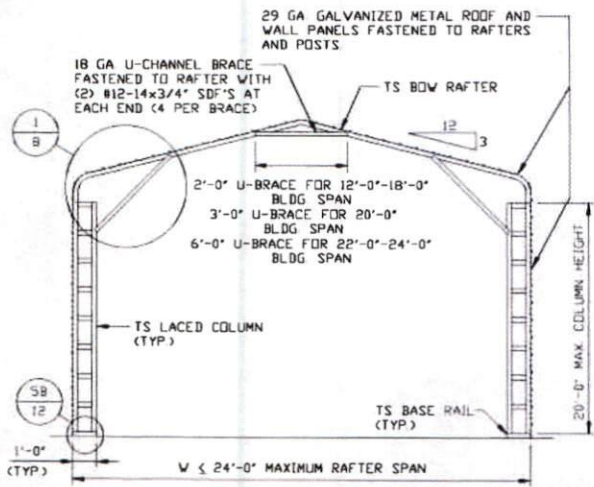
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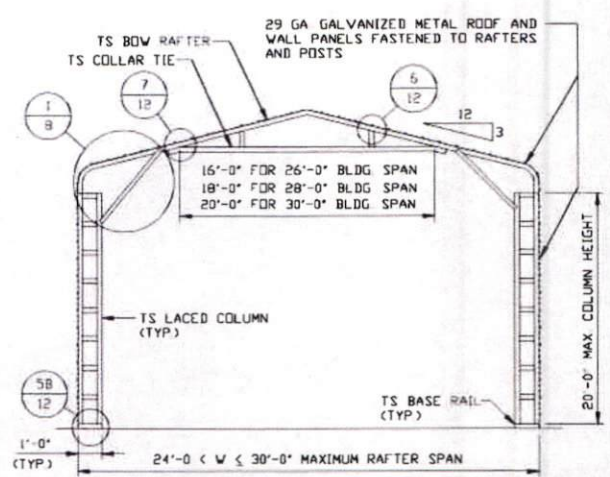
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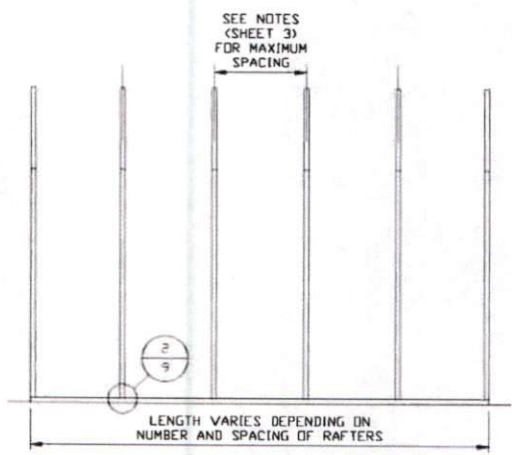
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**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
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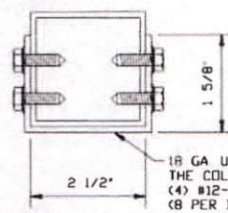
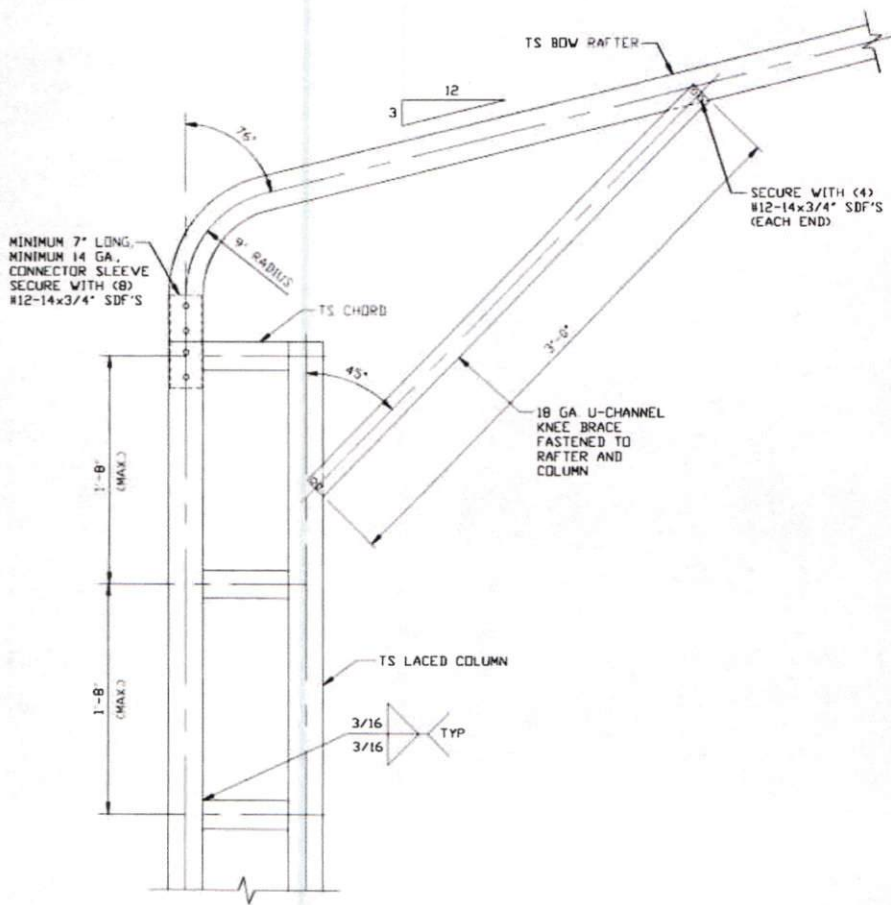
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 SCALE: NTS



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
 SCALE: NTS

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**BRACE SECTION**  
SCALE: NTS

**BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"**  
SCALE: NTS

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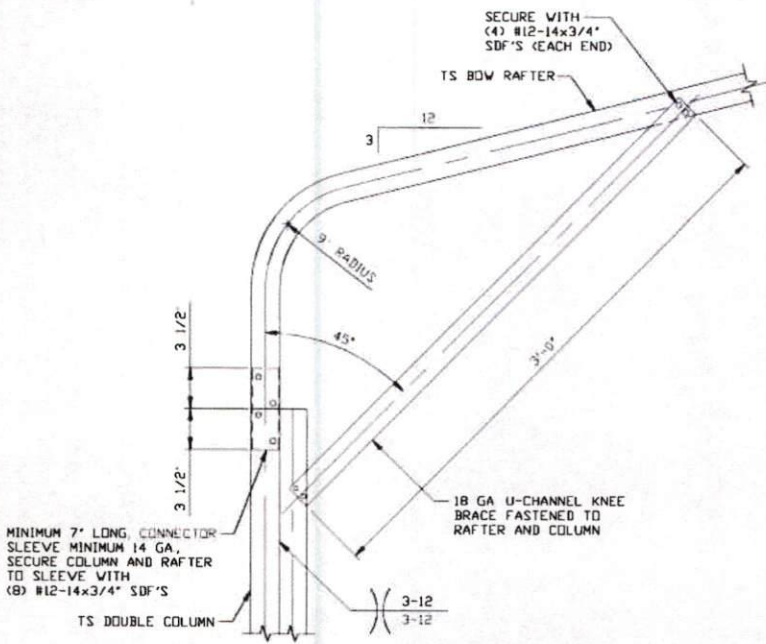
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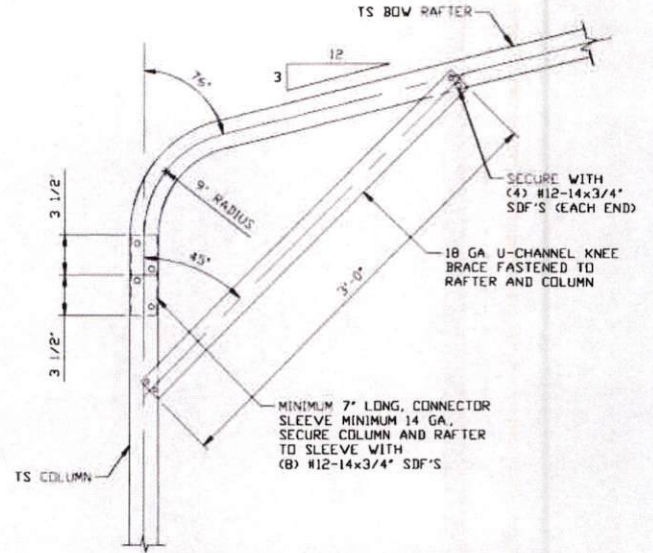
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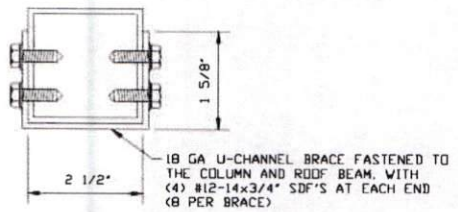
1A

**BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO <= 16'-0"**  
SCALE: NTS



1B

**BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 14'-0"**  
SCALE: NTS



**BRACE SECTION**  
SCALE: NTS

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

**DRAWN BY:** LT  
**CHECKED BY:** PDH  
**PROJECT MGR:** VSM  
**CLIENT:** EAGLE CARPORTS

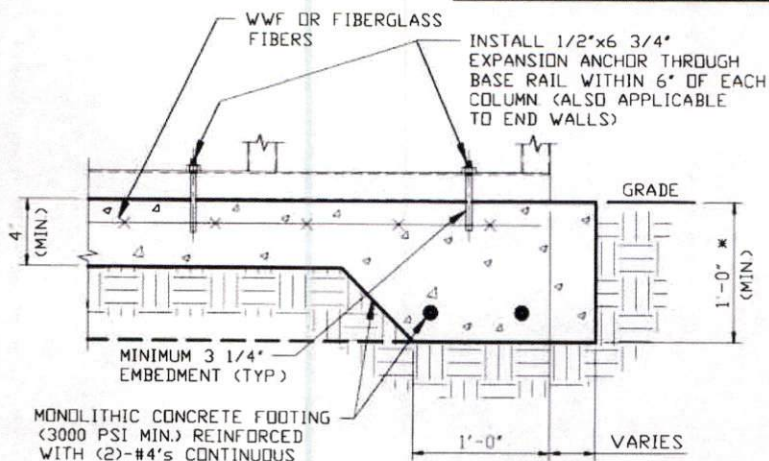
**EAGLE CARPORTS**  
210 AIRPORT ROAD  
MOUNT AIRY, NC 27030  
30'-0"x20'-0" SP FULLY OPEN STRUCTURE  
**DATE:** 12-23-19  
**SCALE:** NTS  
**SHT.** 8A  
**DWG. NO:** SK-1  
**REV.:** 8

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**JOB NO:** 16166S/  
18012S/18260S/19320S



## BASE RAIL ANCHORAGE OPTIONS

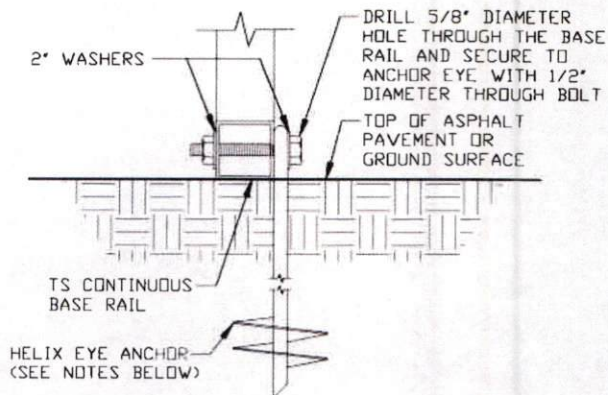


2A

### 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" x 20'-0" SP FULLY OPEN STRUCTURE

DATE: 12-23-19

SHT. 9

SCALE: NTS

DWG. NO: SK-1

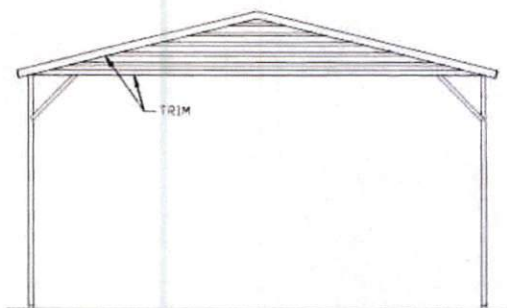
JOB NO: 16166S/  
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REV: 8

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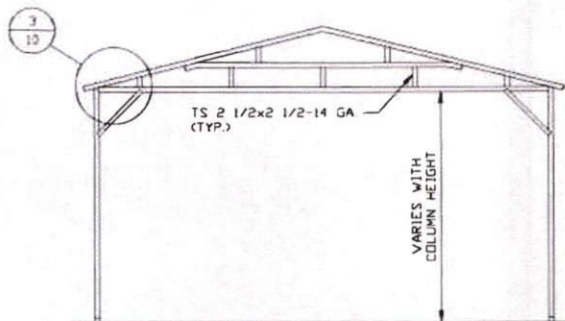


## BOX EAVE RAFTER GABLE END OPTION



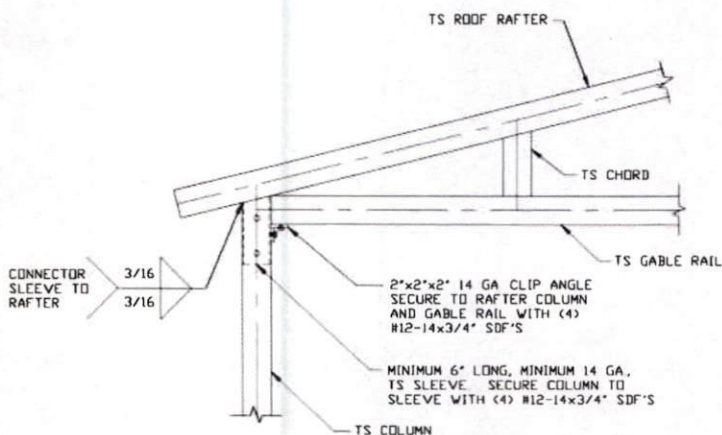
**TYPICAL BOX EAVE RAFTER GABLE END ELEVATION**

SCALE: NTS



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

SCALE: NTS



3

**BOX EAVE RAFTER GABLE RAIL TO RAFTER COLUMN CONNECTION DETAIL**

SCALE: NTS

NOTE: KNEE BRACE NOT SHOWN FOR CLARITY

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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" x 20'-0" SP FULLY OPEN STRUCTURE

DATE: 12-23-19

SHT. 10

SCALE: NTS

DWG. NO: SK-1

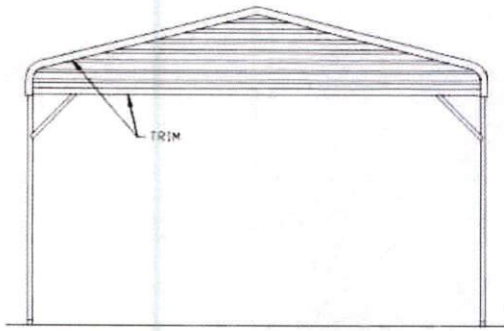
JOB NO: 16166S/  
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REV: 8

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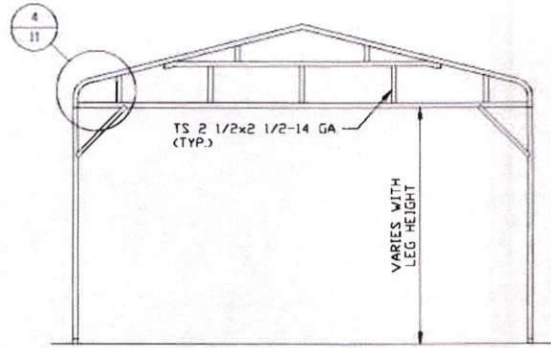


## BOW EAVE RAFTER GABLE END OPTION



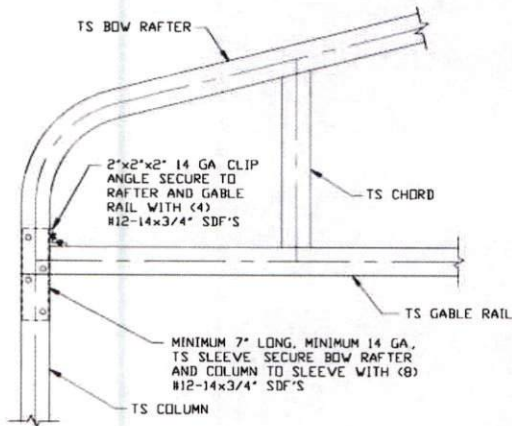
**TYPICAL BOW RAFTER GABLE END ELEVATION**

SCALE: NTS



**TYPICAL BOW RAFTER GABLE END FRAMING SECTION**

SCALE: NTS



**BOW RAFTER GABLE RAIL TO RAFTER/COLUMN CONNECTION DETAIL**

SCALE: NTS

NOTE: KNEE BRACE NOT SHOWN FOR CLARITY.

4

**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 FULLY OPEN STRUCTURE**

**DATE: 12-23-19**

**SHT. 11**

**SCALE: NTS**

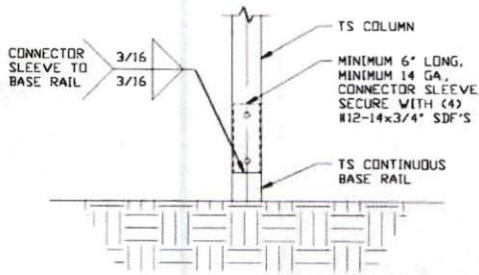
**DWG. NO: SK-1**

**JOB NO: 16166S/  
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**REV: 8**

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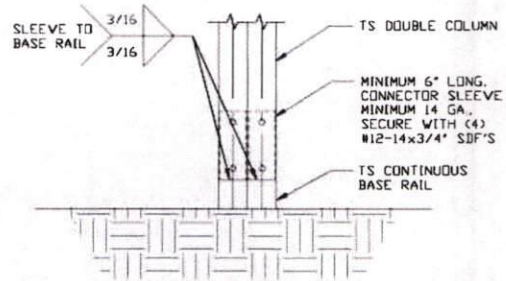
## CONNECTION DETAILS



5

### RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

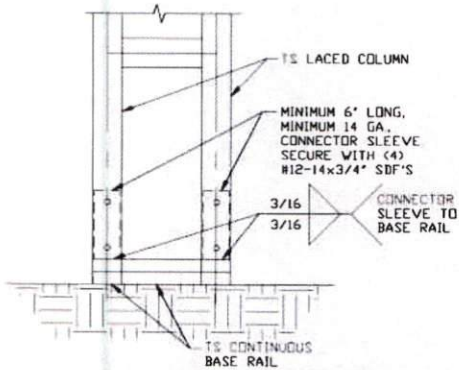
SCALE: NTS



5A

### RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

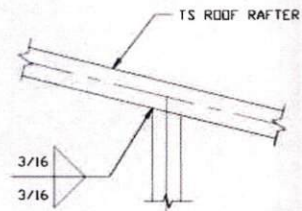
SCALE: NTS



5B

### RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

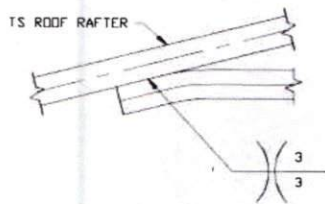
SCALE: NTS



6

### RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS



7

### COLLAR TIE CONNECTION DETAIL

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 FULLY OPEN STRUCTURE

DATE: 12-23-19

SHT. 12

SCALE: NTS

DWG. NO: SK-1

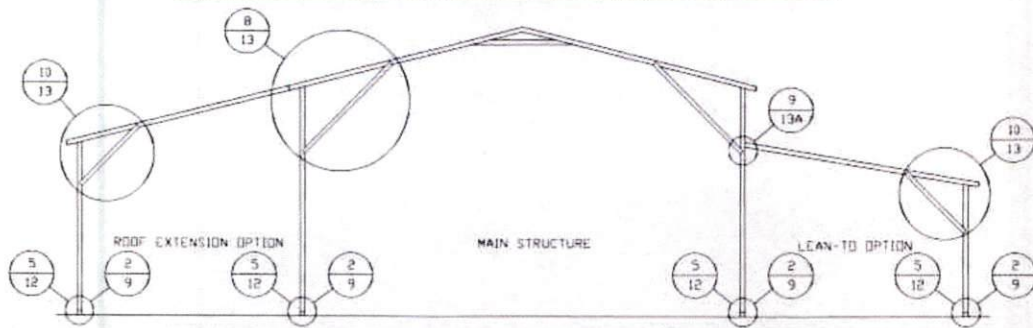
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# BOX EAVE RAFTER LEAN-TO OPTIONS

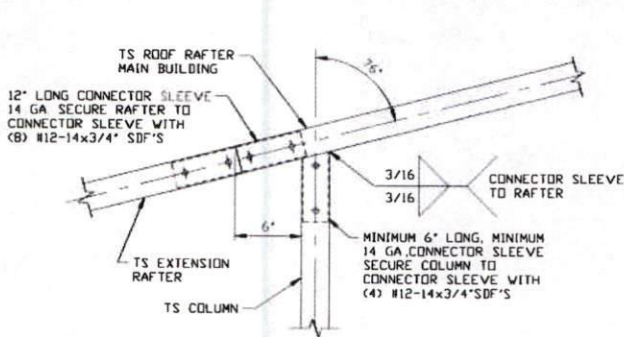


## TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

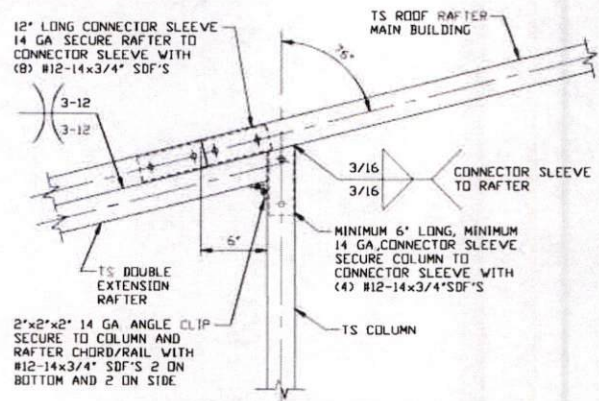
MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0"

MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0"



### 8 SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS $\leq 12'-0''$

SCALE: NTS



### 8A SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS $12'-0'' < TO \leq 15'-0''$

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" x 20'-0" SP FULLY OPEN STRUCTURE**

**DATE: 12-23-19**

**SHT. 13**

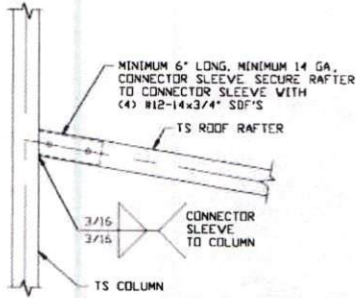
**SCALE: NTS**

**DWG. NO: SK-1**

**JOB NO: 16166S/  
18012S/18260S/19320S**

**REV: 8**

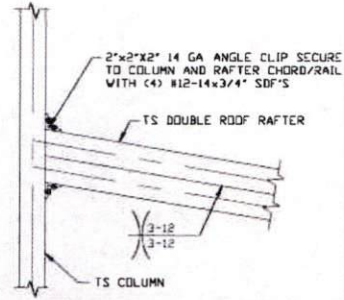
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**LEAN-TO RAFTER TO RAFTER  
COLUMN CONNECTION DETAIL  
FOR RAFTER SPANS  $\leq 12'-0''$**

SCALE: NTS

9



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

SCALE: NTS

9A

**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 FULLY OPEN STRUCTURE

DATE: 12-23-19

SHT. 13A

SCALE: NTS

DWG. NO: SK-1

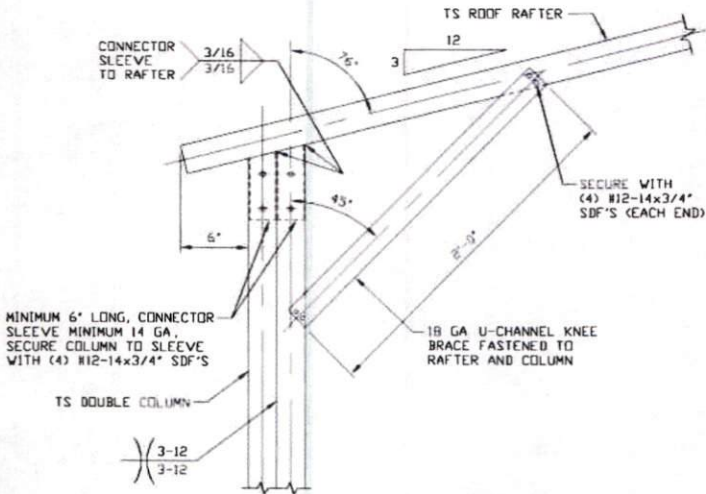
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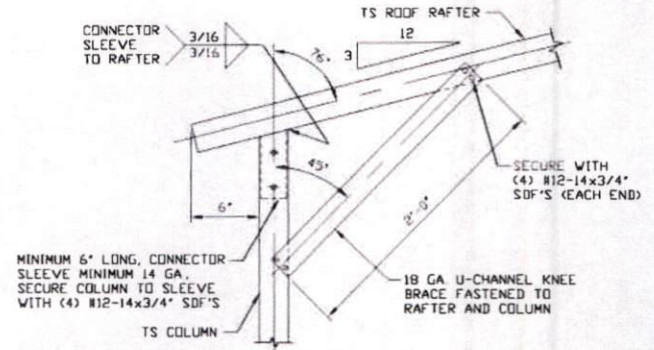


# BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE B



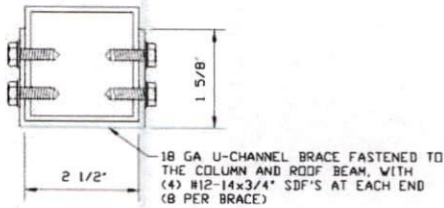
**10** BOX EAVE RAFTER COLUMN CONNECTION  
DETAIL FOR HEIGHTS 14'-0" < TO <= 16'-0"

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



**10A** BOX 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: VSM

CLIENT: EAGLE CARPORTS

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

DATE: 12-23-19

SHT. 13B

SCALE: NTS

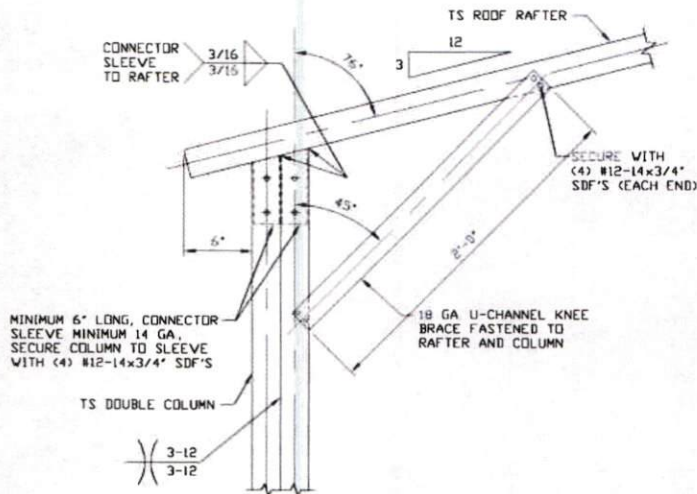
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JOB NO: 16166S/  
18012S/18260S/19320S

REV: 8

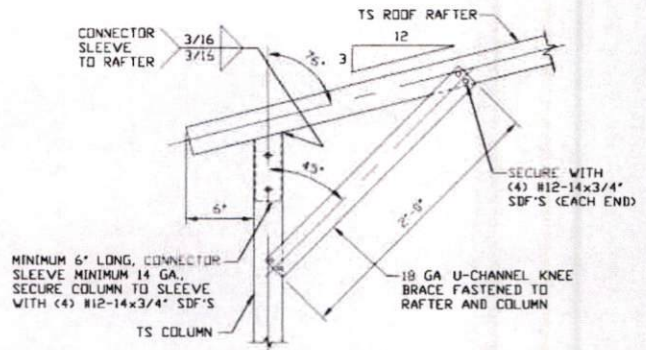
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# BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



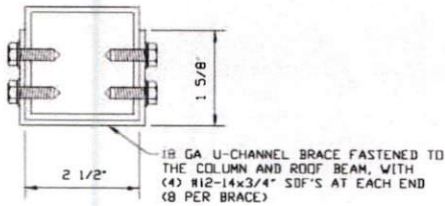
**10B** BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 16'-0"

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



**10C** BOX 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: WSH

CLIENT: EAGLE CARPORTS

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

DATE: 12-23-19

SCALE: NTS

DWG. NO: SK-1

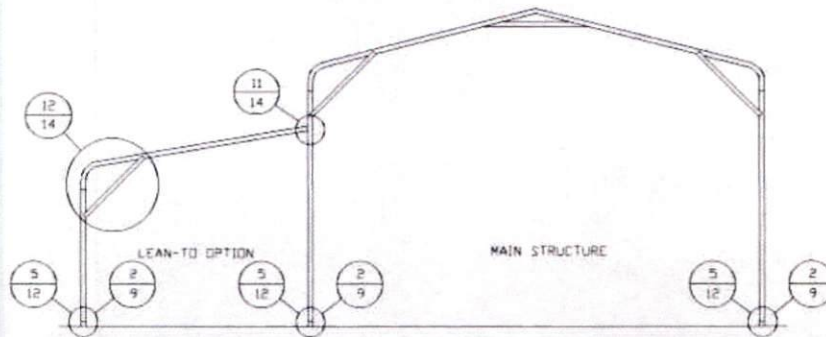
JOB NO: 16166S/  
18012S/18260S/19320S

REV: 8

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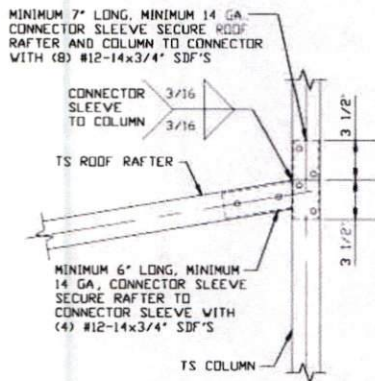


# BOW RAFTER LEAN-TO OPTION



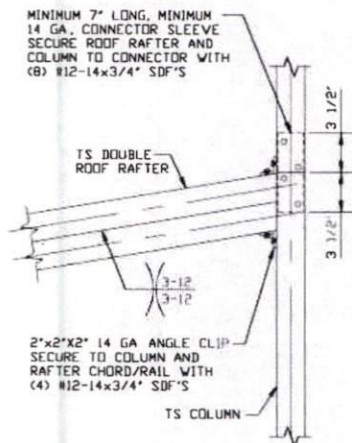
## TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS  
 MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0"  
 MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0"



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

SCALE: NTS



### 11A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < \text{TO} \leq 15'-0"$

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" x 20'-0" SP FULLY OPEN STRUCTURE**

**DATE: 12-23-19**

**SHT. 14**

**SCALE: NTS**

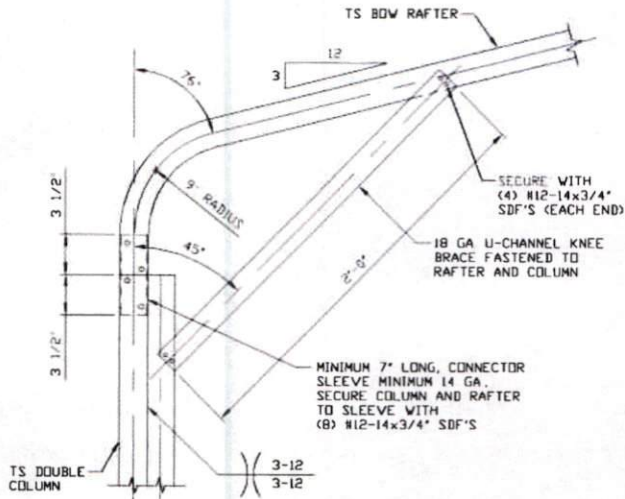
**DWG. NO. SK-1**

**JOB NO: 16166S/  
 18012S/18260S/19320S**

**REV: 8**

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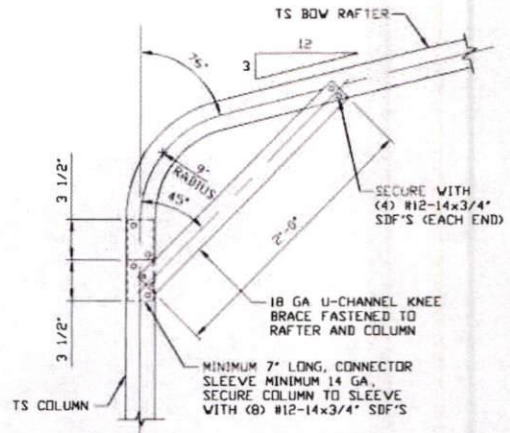
## BOW RAFTER LEAN-TO OPTION - EXPOSURE B



12

### BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 16'-0"

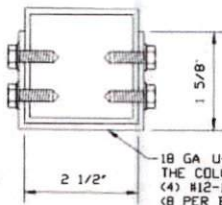
SCALE: NTS  
HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



12A

### 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)



18 GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM, WITH (4) #12-14x3/4" SDF'S AT EACH END (8 PER BRACE)

### 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" x 20'-0" SP FULLY OPEN STRUCTURE

DATE: 12-23-19

SHT. 14A

SCALE: NTS

DWG. NO: SK-1

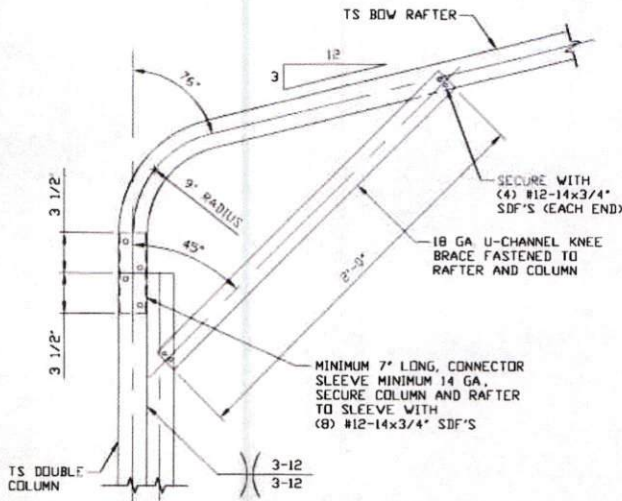
JOB NO: 16166S/  
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REV: 8

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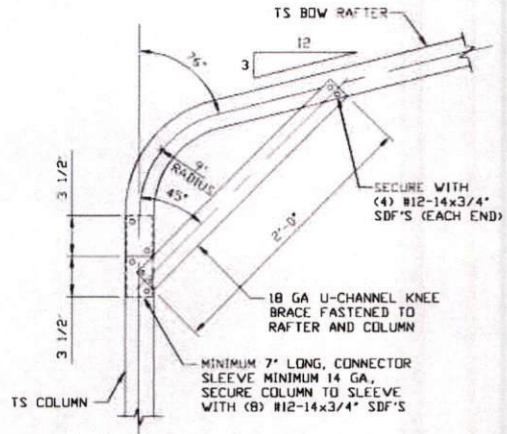
# BOW RAFTER LEAN-TO OPTION - EXPOSURE C



12B

## BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 16'-0"

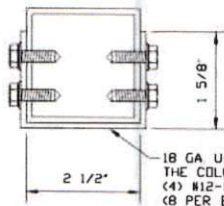
SCALE: NTS  
HORSE BARN OPTION (REQUIRES A LEAN-TO  
ON BOTH SIDES OF THE MAIN BUILDING).



12C

## 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: VSM

CLIENT: EAGLE CARPORTS

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

DATE: 12-23-19

SHT. 14B

SCALE: NTS

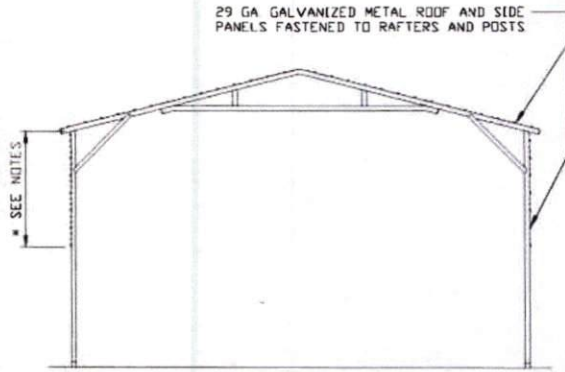
DWG. NO: SK-1

JOB NO: 16166S/  
18012S/18260S/19320S

REV: 8

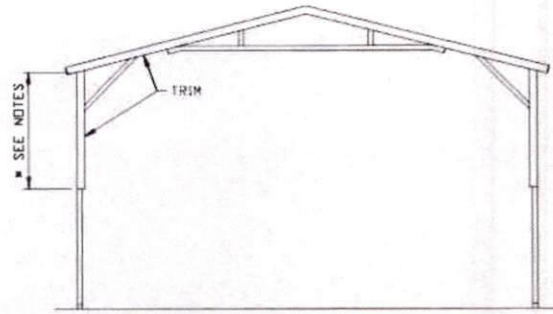
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## BOX EAVE RAFTER EXTRA SIDE PANEL OPTION



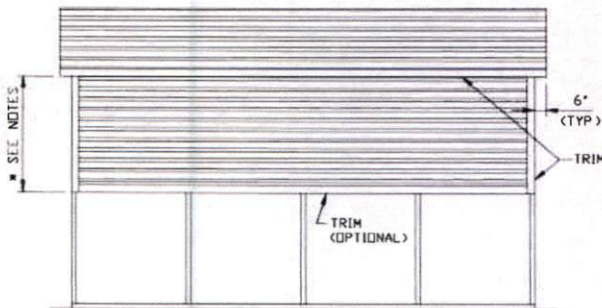
**TYPICAL RAFTER/COLUMN FRAME SECTION - EXTRA SIDE PANELS**

SCALE: NTS



**TYPICAL END ELEVATION EXTRA SIDE PANELS**

SCALE: NTS



**TYPICAL SIDE ELEVATION EXTRA SIDE PANELS**

SCALE: NTS

**NOTES:**

- ✱ 9'-0" MAX FOR EAVE HEIGHT 14'-0" < TO ≤ 20'-0"
- ✱ 6'-0" MAX FOR EAVE HEIGHT ≤ 14'-0"

**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 FULLY OPEN STRUCTURE**

**DATE: 12-23-19**

**SHT. 15**

**SCALE: NTS**

**DWG. NO SK-1**

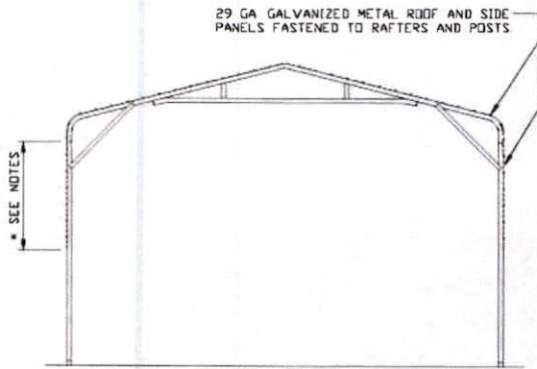
**JOB NO: 16166S/  
18012S/18260S/19320S**

**REV: 8**

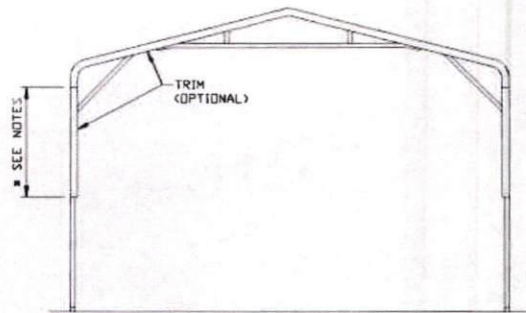
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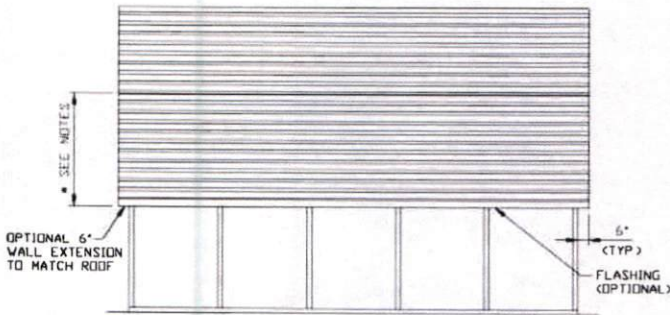
## BOW RAFTER EXTRA SIDE PANEL OPTION



**TYPICAL RAFTER/COLUMN FRAME SECTION - EXTRA SIDE PANELS**  
SCALE: NTS



**TYPICAL END ELEVATION EXTRA SIDE PANELS**  
SCALE: NTS



**TYPICAL SIDE ELEVATION EXTRA SIDE PANELS**  
SCALE: NTS

**NOTES:**

- \* 9'-0" MAX FOR EAVE HEIGHT 14'-0" < TD <= 20'-0"
- \* 6'-0" MAX FOR EAVE HEIGHT < 14'-0"

**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 FULLY OPEN STRUCTURE**

**DATE: 12-23-19**

**SCALE: NTS**

**SHT. 16**

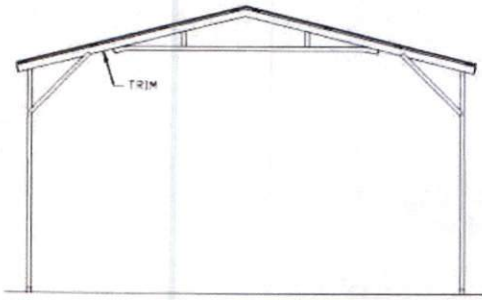
**JOB NO: 16166S/  
18012S/18260S/19320S**

**DWG. NO: SK-1**

**REV: 8**

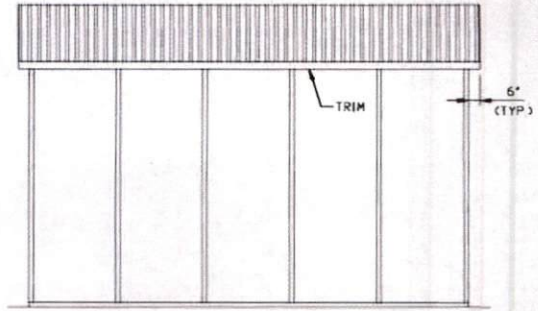
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## BOX EAVE RAFTER VERTICAL ROOF OPTION



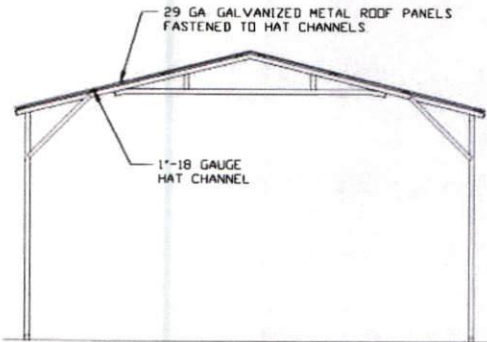
**TYPICAL END ELEVATION  
VERTICAL ROOF**

SCALE: NTS



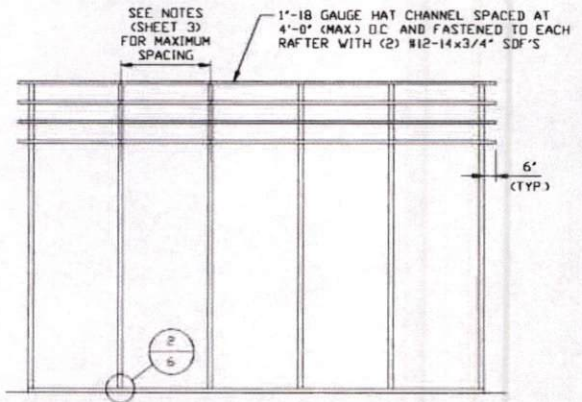
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF**

SCALE: NTS



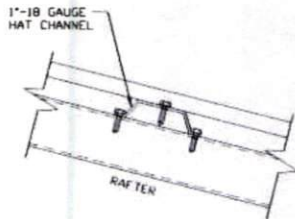
**TYPICAL SECTION  
VERTICAL ROOF OPTION**

SCALE: NTS



**TYPICAL FRAMING SECTION  
VERTICAL ROOF OPTION**

SCALE: NTS



**PANEL ATTACHMENT**

(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS

**MOORE AND ASSOCIATES  
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 FULLY OPEN STRUCTURE**

**DATE: 12-23-19**

**SHT. 17**

**SCALE: NTS**

**DWG. NO: SK-1**

**JOB NO: 16166S/  
18012S/18260S/19320S**

**REV: 8**

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