



## STRUCTURAL DESIGN

## ENCLOSED BUILDING

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

**17 June 2021**

**Revision 3**

**M&A Project No. 17171S/18253S/20376S/21118S**

**Prepared for:**

**Carport Central, Inc.  
137 South Main Street  
Mt. Airy, NC 27030**

**Prepared by:**

**Moore and Associates Engineering and Consulting, Inc.**

**1009 East Avenue  
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**401 S. Main Street, Suite 200  
Mt. Airy, NC 27030**



**MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING**

		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.	

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ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CC

CARPENT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 1

SCALE: NTS

DWG. NO: SK-3

JOB NO: 17171S/18253S/  
20376S/21118S

REV: 3

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	<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>6/18/22</u></p>		
	<p>WAYNE SHERIDAN MOORE No. 12395 6/18/21 REGISTERED PROFESSIONAL ENGINEER (STRUCTURAL)</p>		

<p><b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b></p>	<p>DRAWN BY: JG</p>	<p>CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 30'-0" x 16'-0" ENCLOSED STRUCTURE</p>		
	<p>CHECKED BY: PDM</p>	<p>PROJECT MGR: WSM</p>	<p>DATE: 6-17-21</p>	<p>SCALE: NTS JOB NO: 17171S/18253S/ 20376S/2118S</p>
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**INSTALLATION NOTES AND SPECIFICATIONS**

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES LISTED ON SHEET 3A
- 3 DESIGN LOADS ARE AS FOLLOWS:
  - A) DEAD LOAD = 15 PSF
  - B) LIVE LOAD = 12 PSF
  - C) GROUND SNOW LOAD = 30 PSF ( $\leq 26'-0"$ ), 35 PSF ( $26'-0" < W \leq 30'-0"$ )

(NOTE: UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
- 4 ULTIMATE WIND SPEED =  $\leq 145$  MPH (NOMINAL WIND SPEED =  $\leq 112$  MPH) UNLESS NOT OTHERWISE)
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL COLUMNS (POST) 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 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL JOIST FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR AND EDGE DISTANCE) = 8 INCHES
- 11 FASTENERS CONSIST OF 1/4"x3/4" (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, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT
- 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 IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS  $\leq 145$  MPH. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AND FOR WIND SPEEDS  $> 145$  MPH AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:  
 SOIL SITE CLASS = D  
 RISK CATEGORY I  
 $R = 3.25$   
 $S_{DS} = 2.039 g$   
 $S_{D1} = 1.258 g$   
 $I_E = 1.0$   
 $V = C_s W$

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**LIST OF APPLICABLE BUILDING CODES**

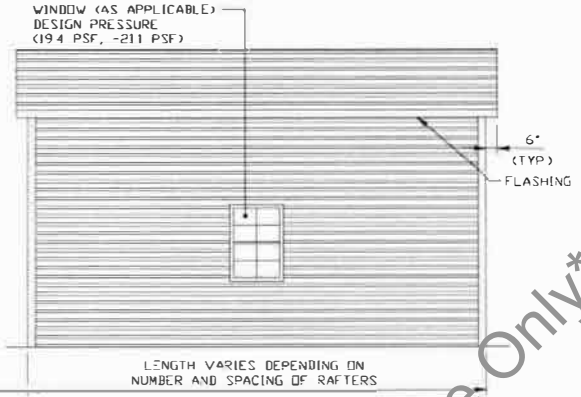
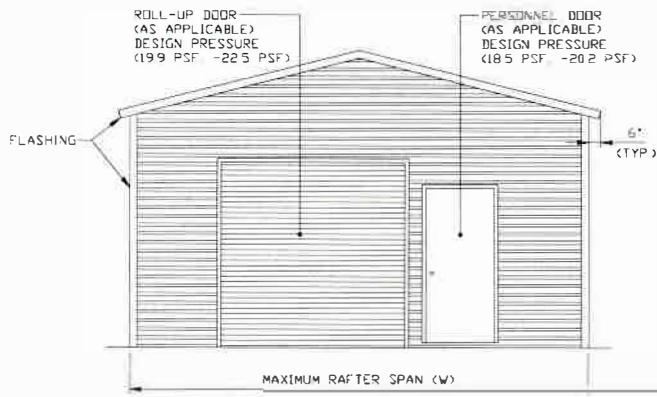
- 2018 INTERNATIONAL BUILDING CODE (IBC 2018)
- 2015 INTERNATIONAL BUILDING CODE (IBC 2015)
- 2012 INTERNATIONAL BUILDING CODE (IBC 2012)
- 2009 INTERNATIONAL BUILDING CODE (IBC 2009)
- 2006 INTERNATIONAL BUILDING CODE (IBC 2006)
- BUILDING CODE 2015 OF ALABAMA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2015 IBC PORTION OF THE 2018 CT STATE BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- COLORADO: IBC 2015, IBC 2018  
(DEPENDENT UPON LOCAL JURISDICTION)
- 2020 FLORIDA BUILDING CODE, 7TH EDITION
- GEORGIA STATE MINIMUM STANDARD BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- INDIANA BUILDING CODE, 2014 EDITION  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
- BUILDING CODE 2018 OF KANSAS  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- 2018 KENTUCKY BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF LOUISIANA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- MA STATE BUILDING CODE, 9TH EDITION  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2018 OF MARYLAND  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- BUILDING CODE 2015 OF NEW MEXICO  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2020 BUILDING CODE OF NEW YORK STATE  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- 2018 NORTH CAROLINA BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- OHIO BUILDING CODE 2017  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF OKLAHOMA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF PENNSYLVANIA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2019 RHODE ISLAND BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2018 SOUTH CAROLINA BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2012 OF TENNESSEE  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
- \* IBC 2012, IBC 2018  
BUILDING CODE OF THE TEXAS INDUSTRIALIZED  
HOUSING AND BUILDINGS PROGRAM  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)

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	CLIENT: CC	SHT. 3A	DWG. NO: SK-3	REV: 3



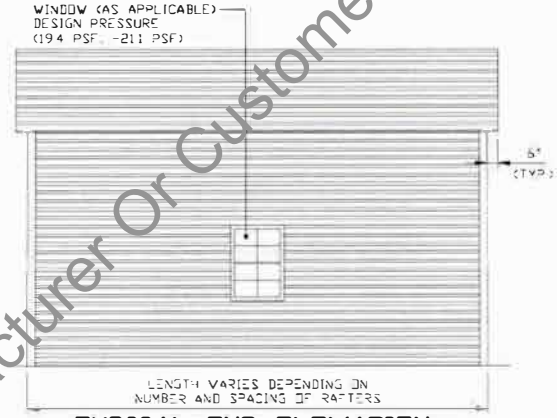
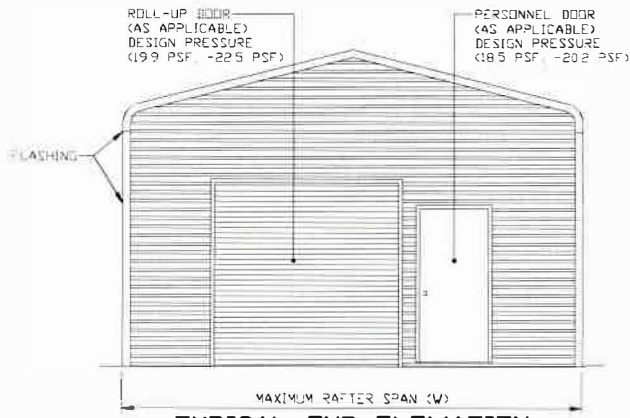
**BOX EAVE FRAME RAFTER STRUCTURE** (Sheets 5, 6, 9, 9A, 10, 12, 13, 14, 15, 18, 19, 20 AND 21)



**TYPICAL END ELEVATION-HORIZONTAL ROOF**  
SCALE: NTS

**TYPICAL SIDE ELEVATION-HORIZONTAL ROOF**  
SCALE: NTS

**BOW FRAME RAFTER STRUCTURE** (Sheets 7, 8, 9, 9A, 11, 12, 13, 14, 16, 18, 19, 20 AND 21)



**TYPICAL END ELEVATION**  
SCALE: NTS

**TYPICAL END ELEVATION**  
SCALE: NTS

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030**

**30'-0" X 16'-0" ENCLOSED STRUCTURE**

**DATE: 6-17-21**

**SHT. 4**

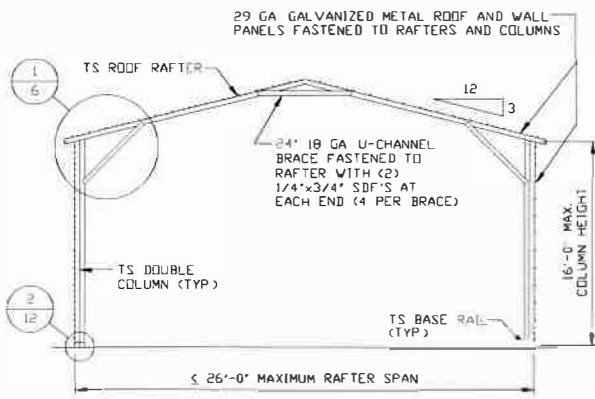
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**DWG. NO: SK-3**

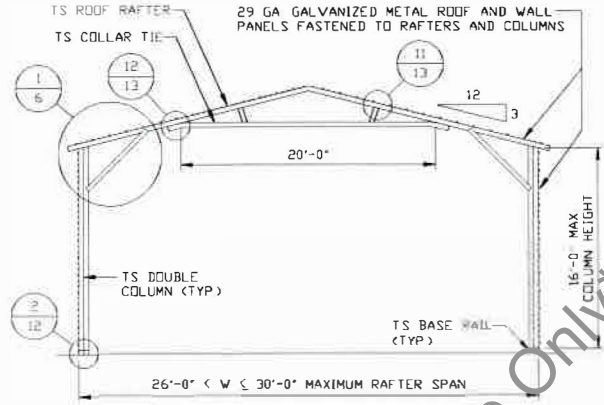
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20376S/21118S**

**REV: 3**

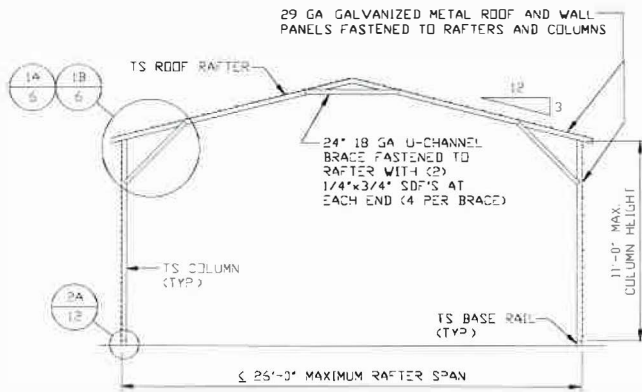
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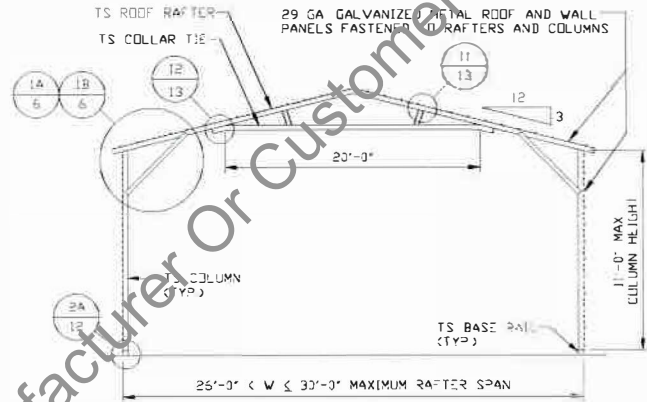
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
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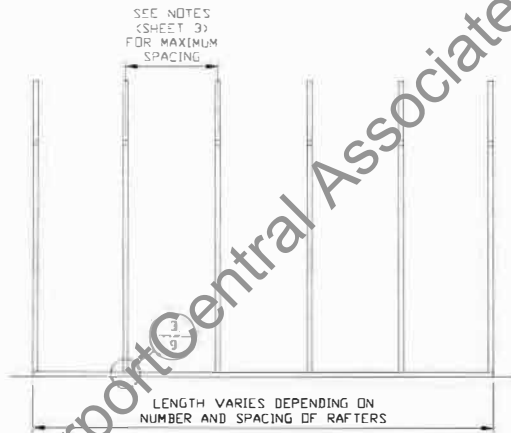
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



**TYPICAL RAFTER/COLUMN 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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30'-0" x 16'-0" ENCLOSED STRUCTURE

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SHT. 5

SCALE: NTS

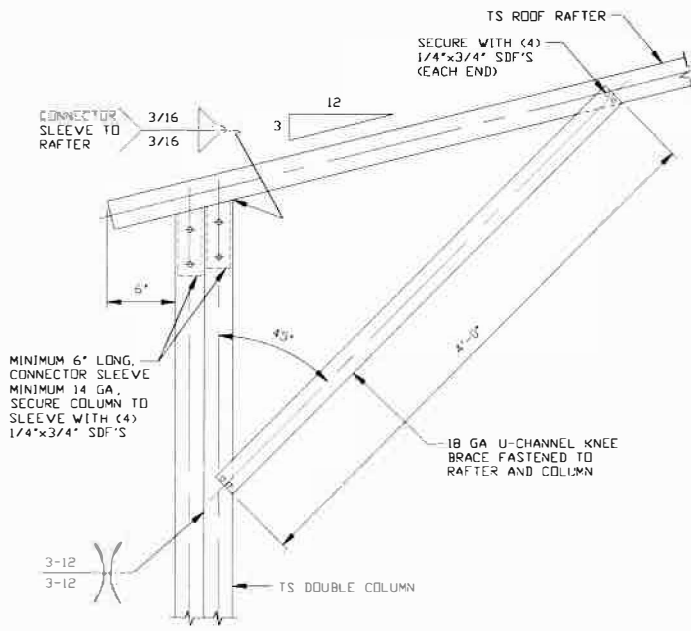
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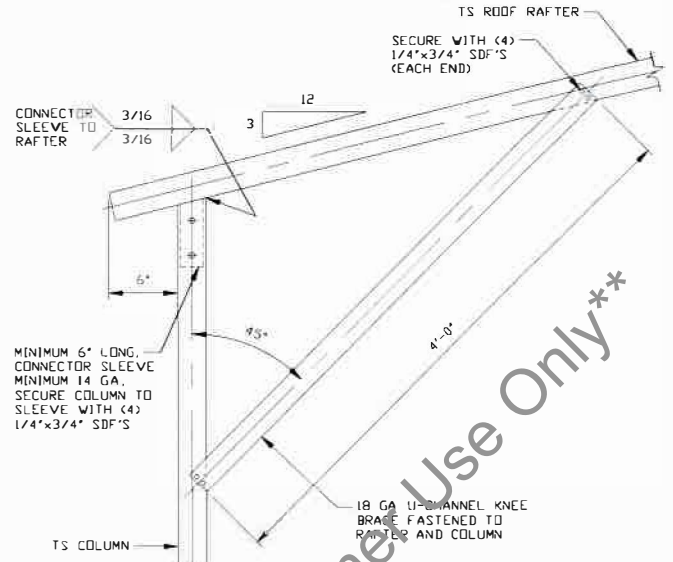




**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"**

1

SCALE: NTS

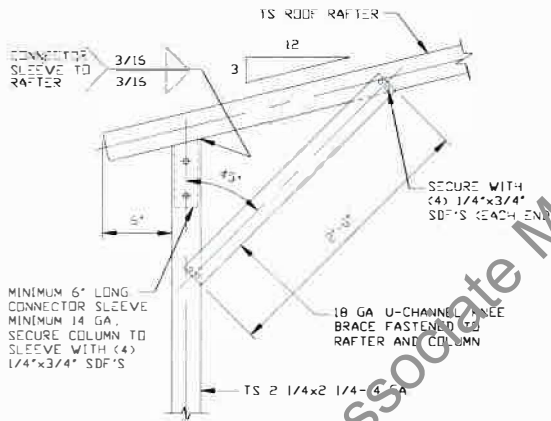


**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO ≤ 11'-0"**

1A

SCALE: NTS

NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS ≤ 128 MPH

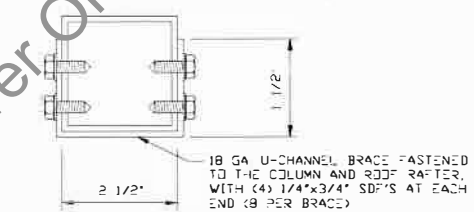


**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 9'-0"**

1B

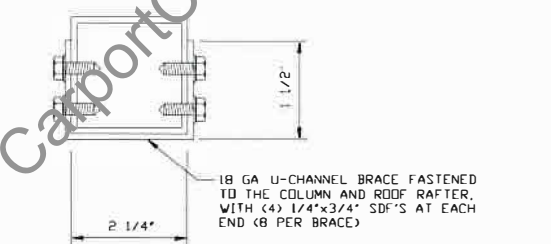
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NOTE: KNEE BRACE MUST BE 4'-0" FOR 30'-0" WIDE STRUCTURES



**BRACE SECTION**

SCALE: NTS



**BRACE SECTION**

SCALE: NTS

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 6

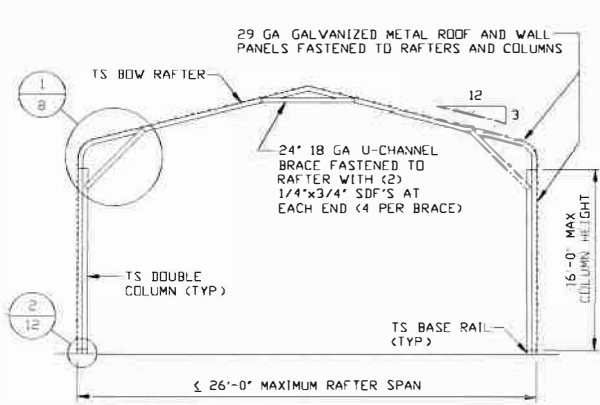
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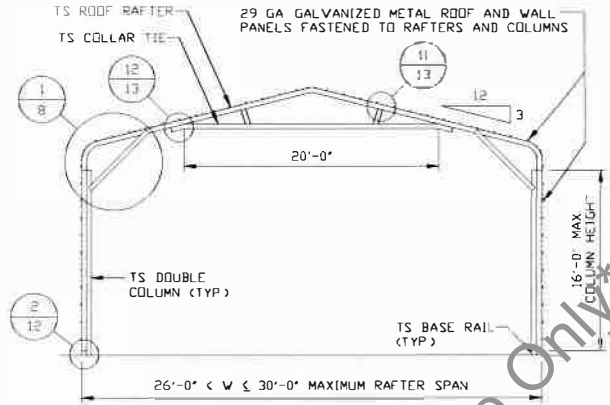
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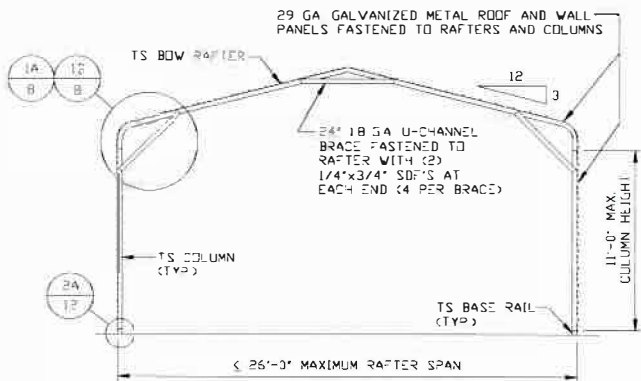
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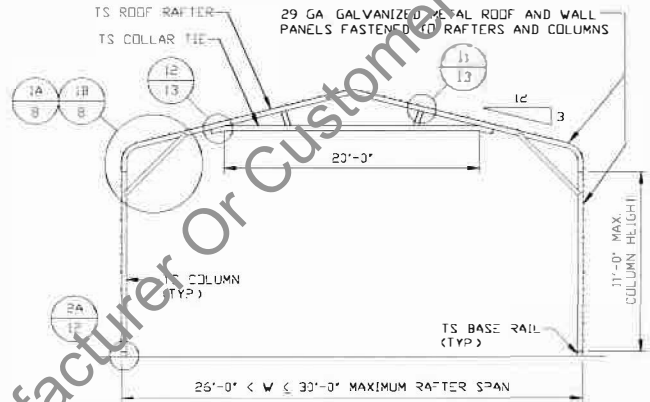
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



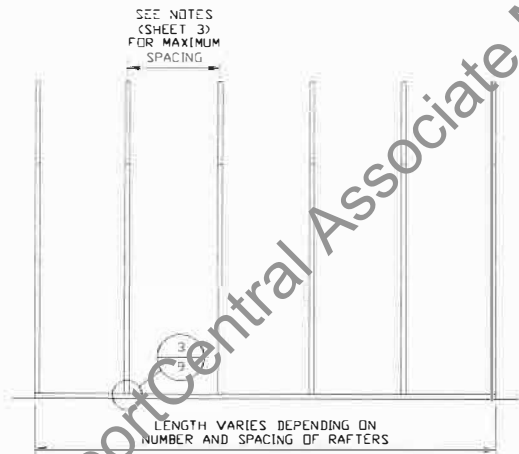
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



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



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



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

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SHT. 7

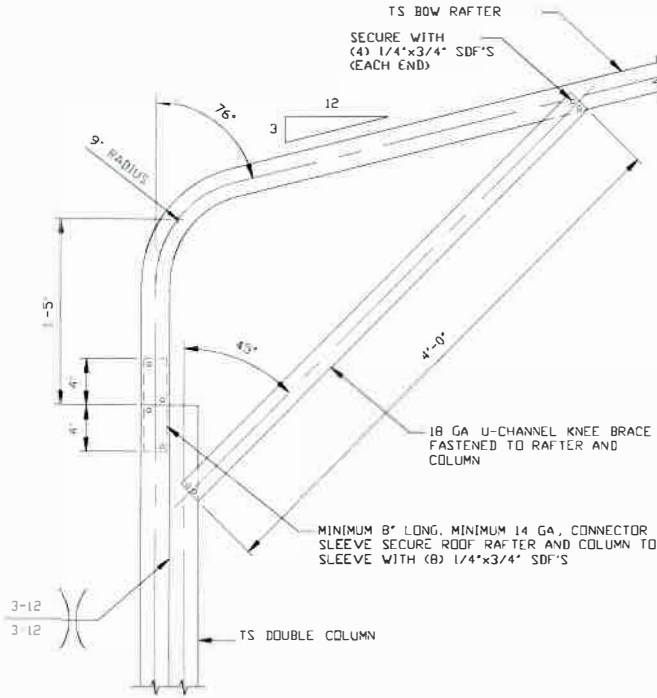
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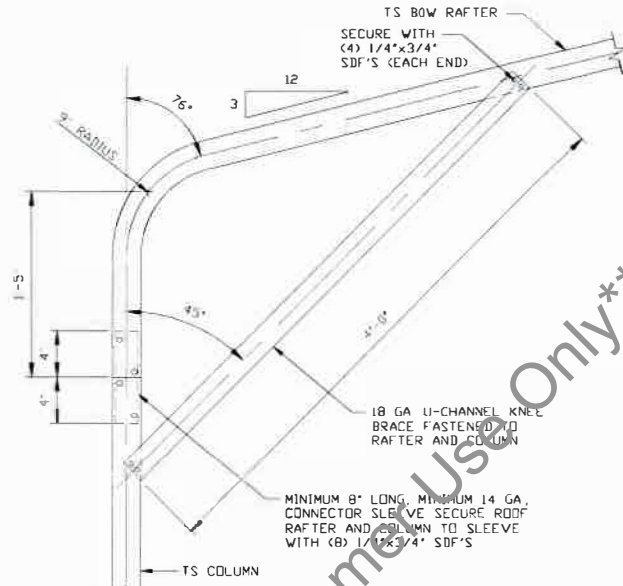
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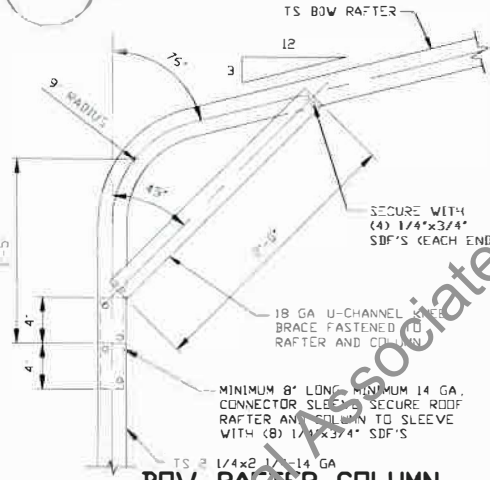
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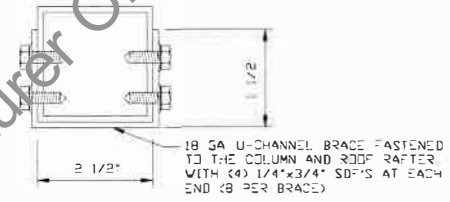
**1**  
**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0"**  
SCALE: NTS



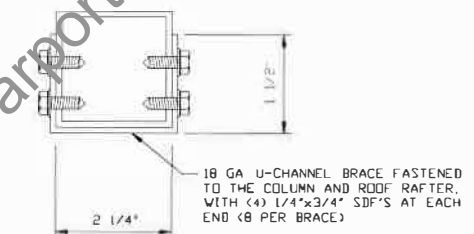
**1A**  
**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO <= 11'-0"**  
SCALE: NTS  
NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS <= 128 MPH.



**1B**  
**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 9'-0"**  
SCALE: NTS  
NOTE: KNEE BRACE MUST BE 4'-0" FOR 30'-0" WIDE STRUCTURES



**BRACE SECTION**  
SCALE: NTS



**BRACE SECTION**  
SCALE: NTS

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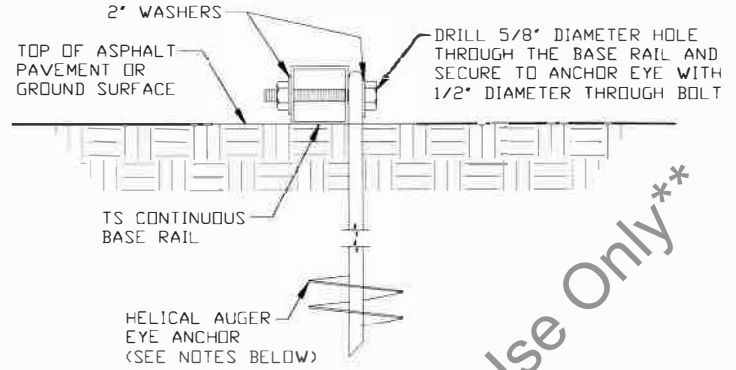
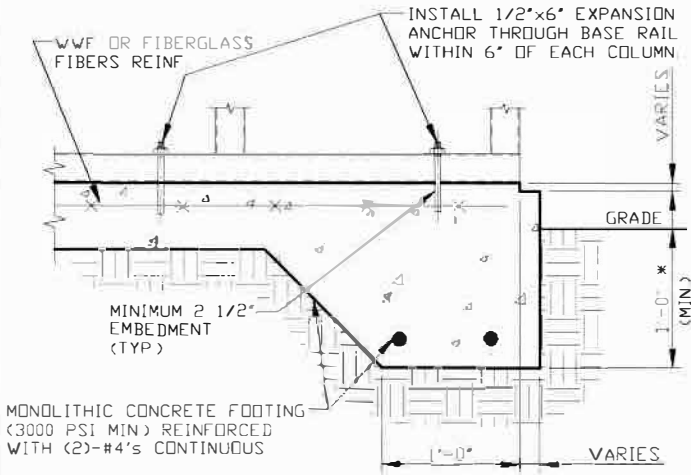
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**BASE RAIL ANCHORAGE OPTIONS**



3A

**CONCRETE MONOLITHIC SLAB  
BASE RAIL ANCHORAGE**

SCALE: NTS  
MINIMUM ANCHOR EDGE DISTANCE IS 4"  
\* COORDINATE WITH LOCAL BUILDING CODE/ORD  
REGARDING MINIMUM FROST DEPTH (LENGTH)

3B

**HELICAL AUGER ANCHORAGE**

SCALE: NTS (CAN BE USED FOR ASPHALT)  
\* COORDINATE WITH LOCAL BUILDING CODE/ORD  
REGARDING MINIMUM FROST DEPTH (LENGTH)

**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" 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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT

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

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPORIT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 9

SCALE: NTS

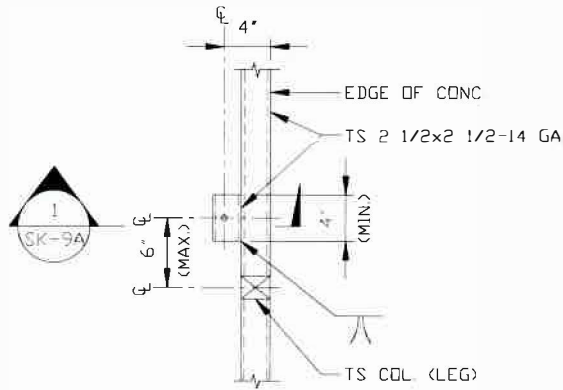
DWG. NO: SK-3

JOB NO: 1717S/18253S/  
20376S/21118S

REV: 3

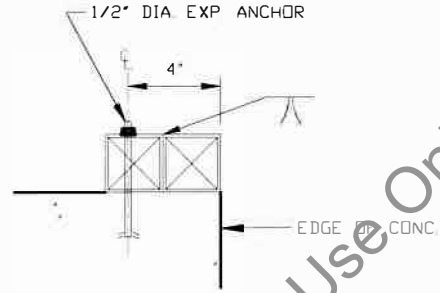
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**BASE RAIL ANCHORAGE OPTION**



**TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE**

SCALE: NTS



**SECTION**  
SCALE: NTS

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**PROJECT MGR: WSM**

**CLIENT: CC**

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 9A**

**SCALE: NTS**

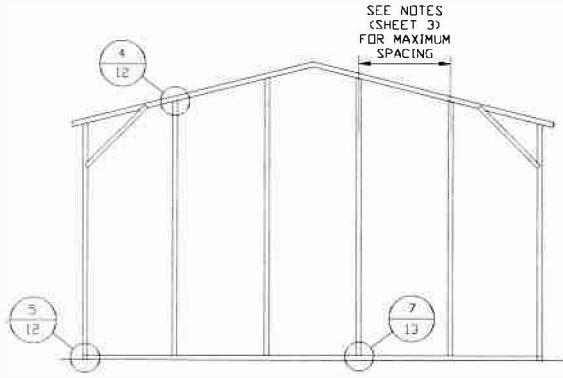
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**JOB NO: 1717S/18253S/  
20376S/21118S**

**REV: 3**

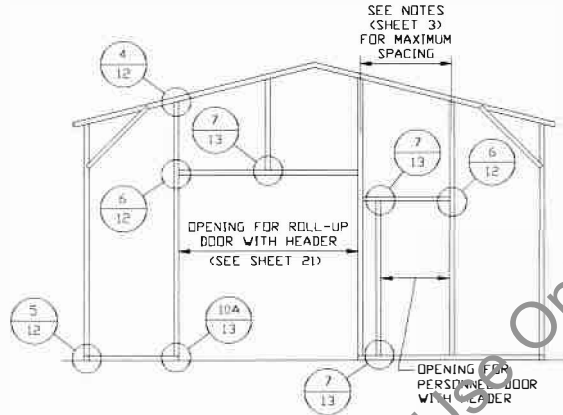
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**BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS**



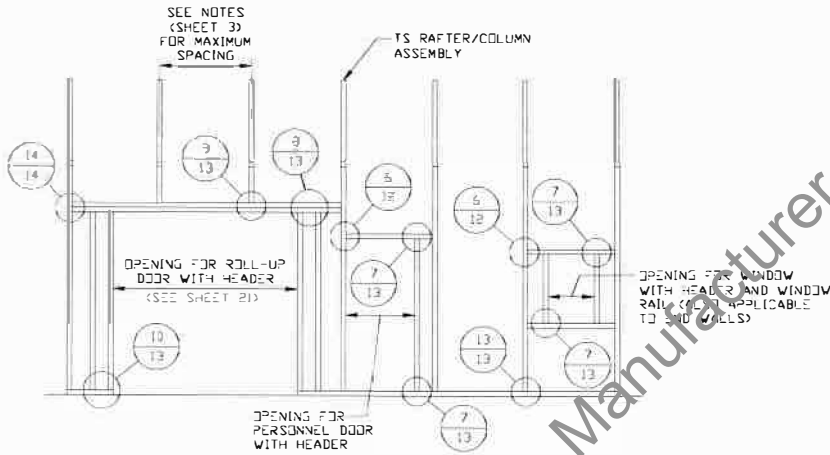
**TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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**PROJECT MGR: WSM**

**CLIENT: CC**

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 10**

**SCALE: NTS**

**DWG. NO: SK-3**

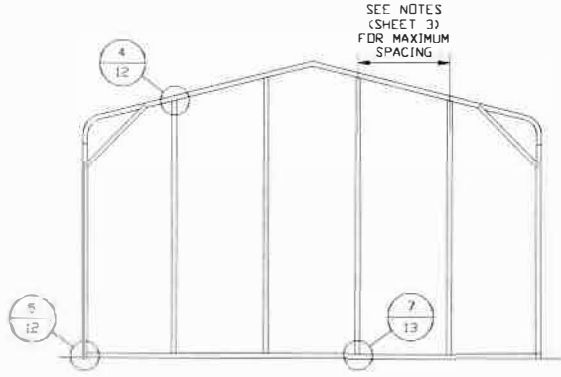
**JOB NO: 17171S/18253S/  
20376S/21116S**

**REV: 3**

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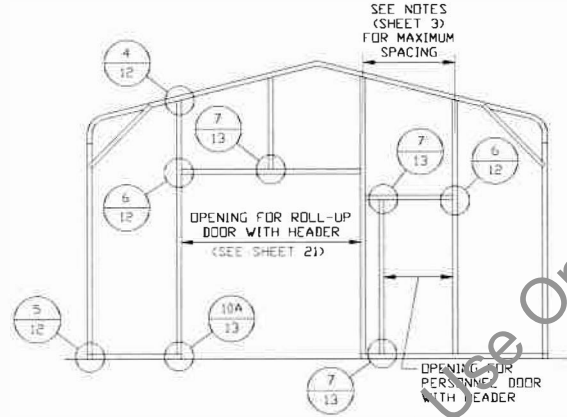


**BOW RAFTER END WALL AND SIDE WALL FRAMING SECTIONS**



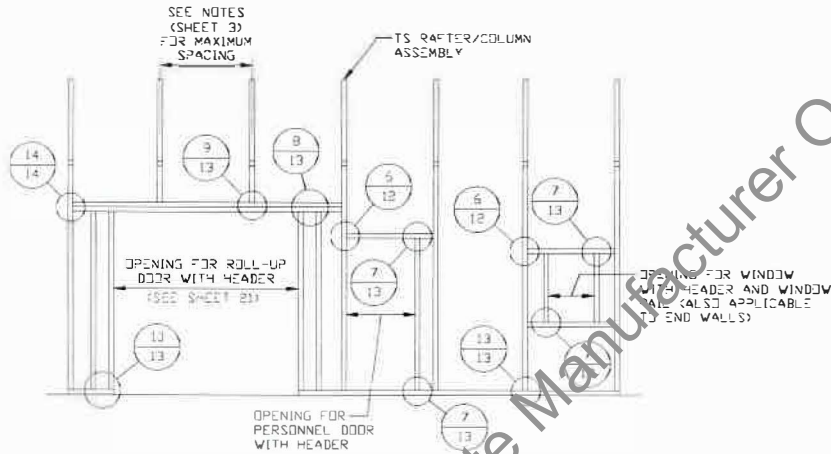
**TYPICAL BOW RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: CC**

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE**

**DATE: 6-17-21**

**SHT. 11**

**SCALE: NTS**

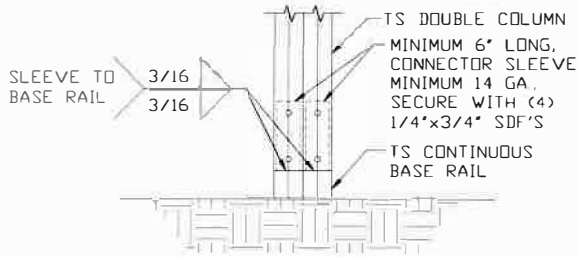
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**JOB NO: 17171S/18253S/  
20376S/21118S**

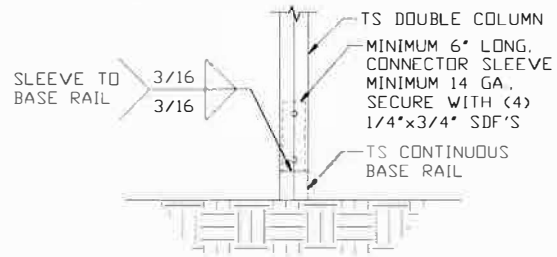
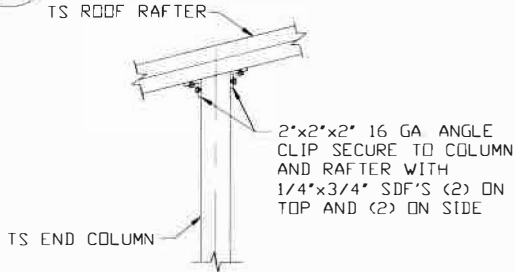
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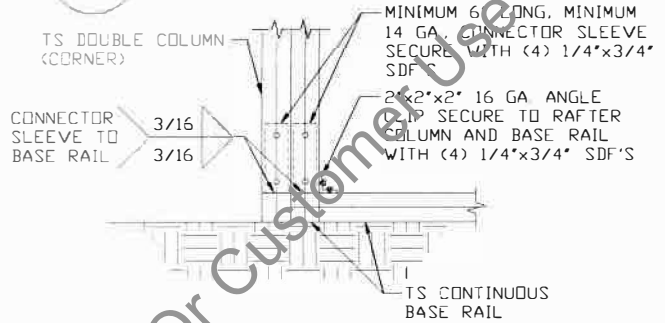
**CONNECTION DETAILS**



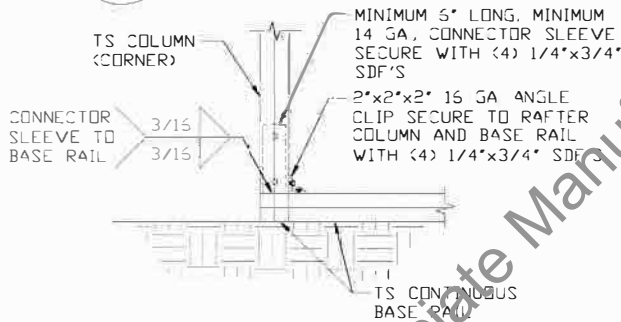
**2** RAFTER COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



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

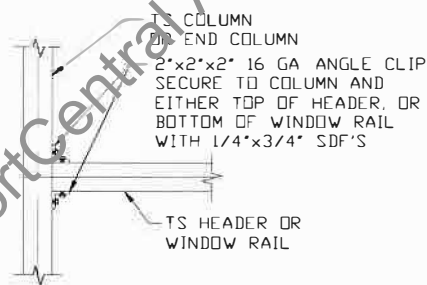


**4** END COLUMN/RAFTER CONNECTION DETAIL  
SCALE: NTS



**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/TS GIRT CONNECTION DETAIL  
SCALE: NTS

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**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: CC**

CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0"X16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 12**

**SCALE: NTS**

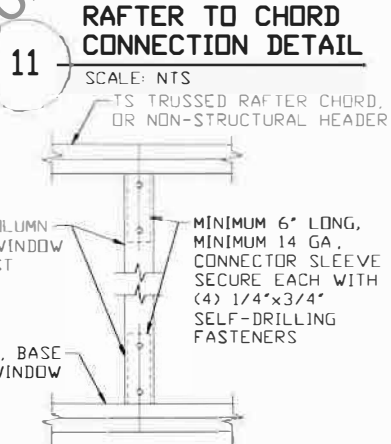
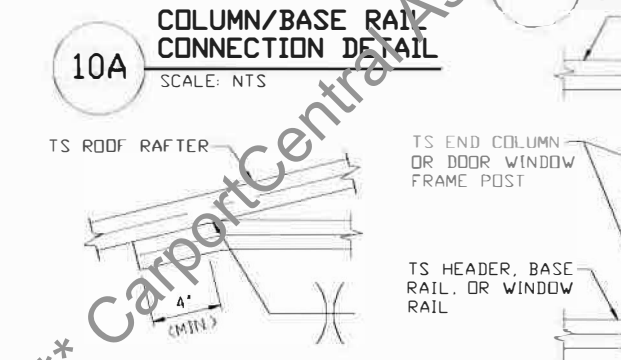
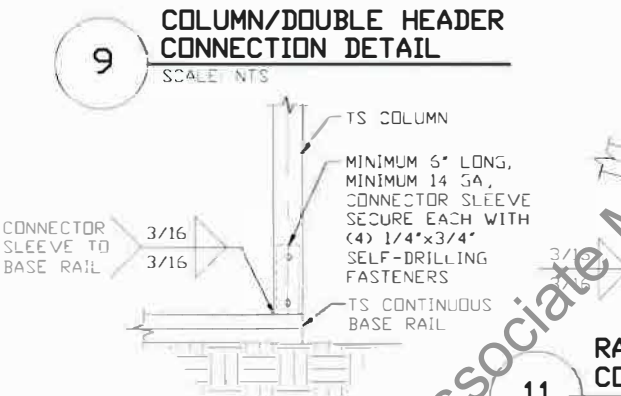
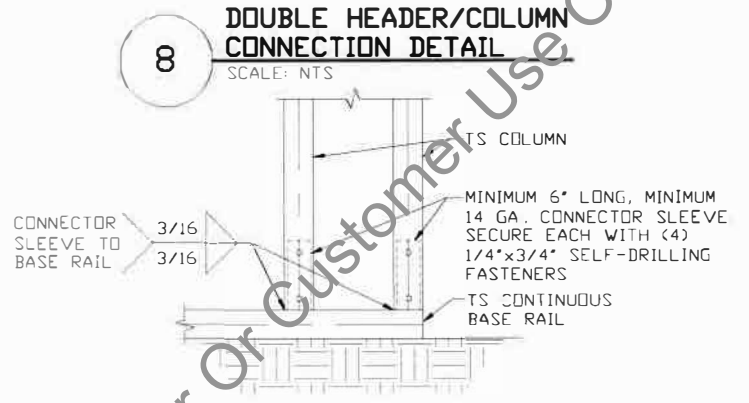
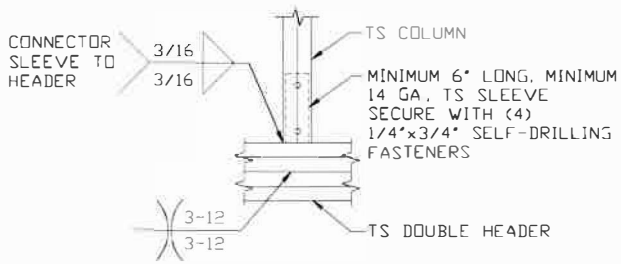
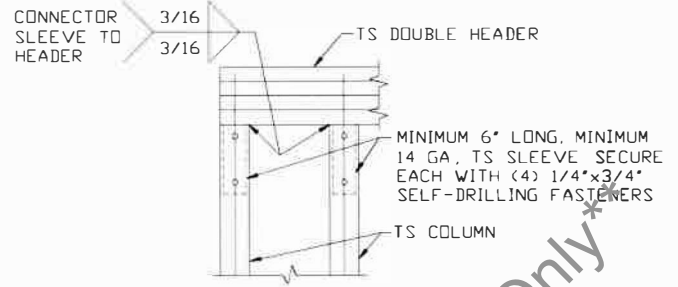
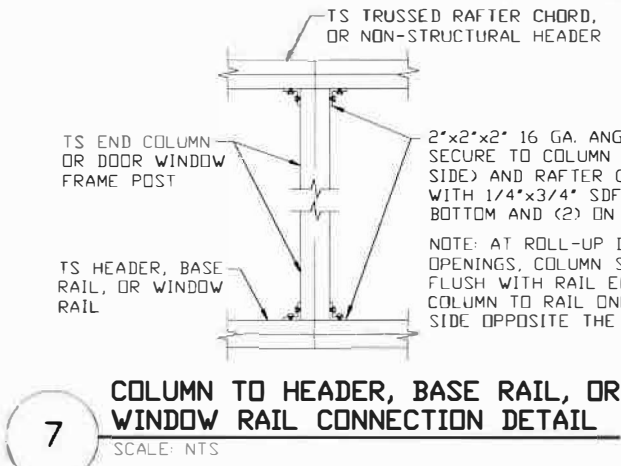
**DWG. NO: SK-3**

**JOB NO: 17171S/18253S/  
20376S/21118S**

**REV: 3**

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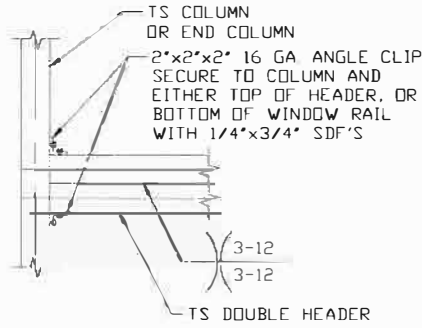
**CONNECTION DETAILS**



<b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b>	DRAWN BY: JG	CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030		
	CHECKED BY: PDH	30'-0" x 16'-0" ENCLOSED STRUCTURE		
PROJECT MGR: WSM	DATE: 6-17-21	SCALE: NTS	JOB NO: 17171S/18253S/ 20376S/21118S	
CLIENT: CC	SHT. 13	DWG. NO: SK-3	REV: 3	



**CONNECTION DETAILS**

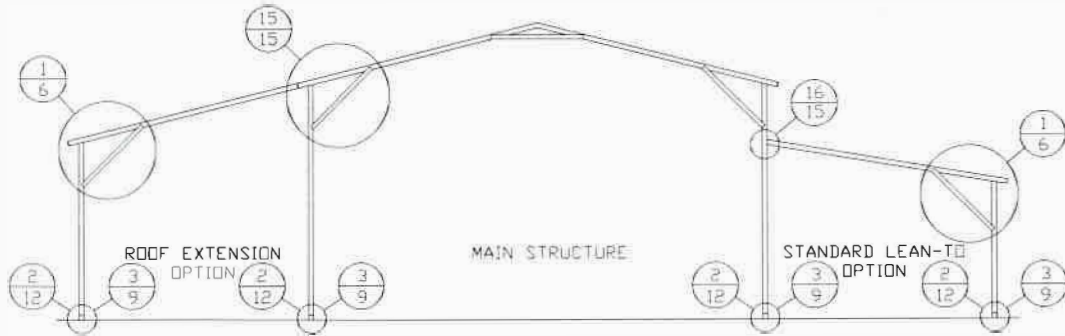


14 **COLUMN/DOUBLE HEADER CONNECTION DETAIL**  
SCALE: NTS

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	CLIENT: CC	SHT. 14	DWG. NO: SK-3	REV: 3

**BOX EAVE RAFTER LEAN-TO OPTIONS**



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

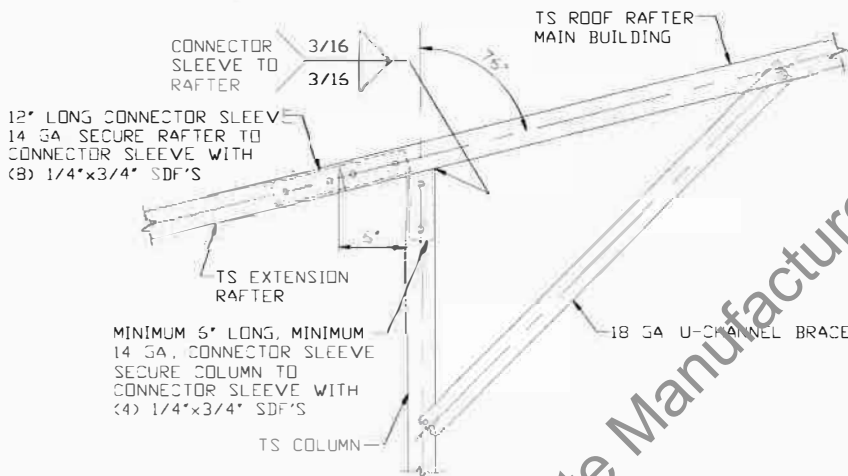
SCALE: NTS

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

NOTE: FOR 12'-0" WIDE LEAN-TO KNEE BRACE MUST BE 4'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 9'-0" < TO ≤ 16'-0"

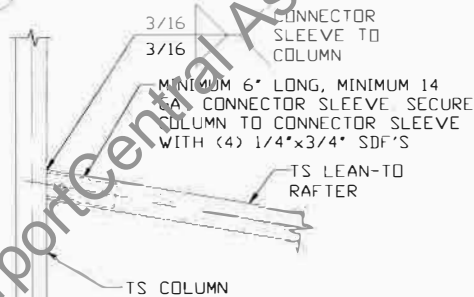
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS ≤ 9'-0"



**SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS ≤ 12'-0"**

15

SCALE: NTS



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

16

SCALE: NTS

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PROJECT MGR: WSM

CLIENT: CC

CARPOR CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 15

SCALE: NTS

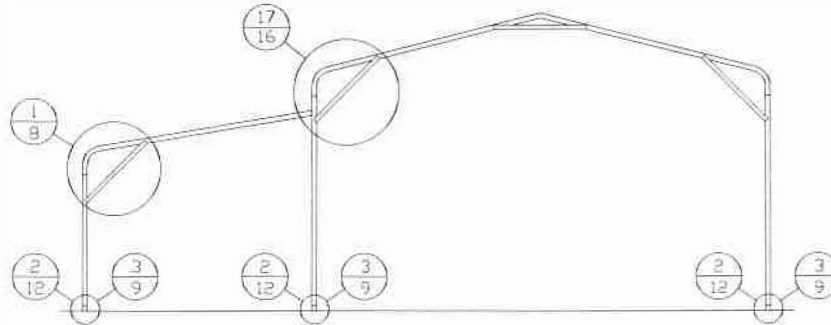
DWG. NO: SK-3

JOB NO: 17171S/18253S/  
20376S/21118S

REV: 3

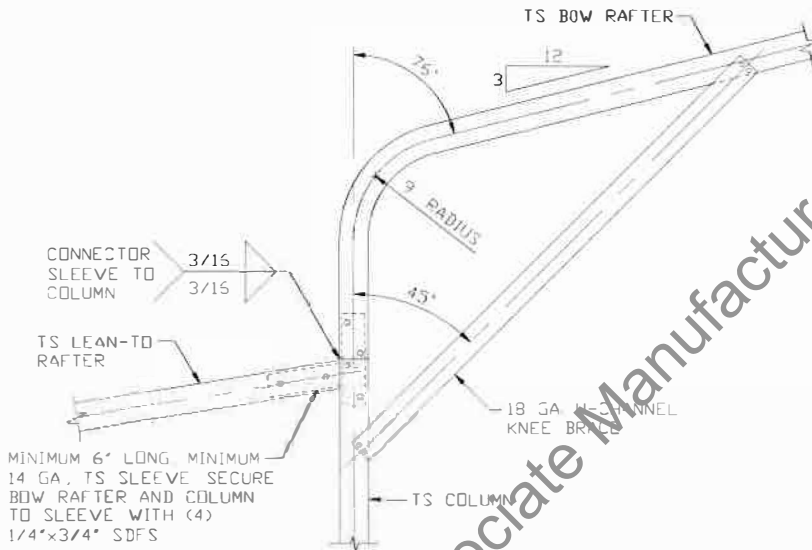
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**BOW RAFTER LEAN-TO OPTION**



**TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION**

SCALE: NTS  
 (MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION LEAN-TO IS 12'-0")  
 NOTE: FOR 12'-0" WIDE LEAN-TO KNEE BRACE MUST BE 4'-0"  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 9'-0" < TO < 16'-0"  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS < 9'-0"



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

17

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

**DRAWN BY: JG**

**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: CC**

CARPORT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 16**

**SCALE: NTS**

**DWG. NO SK-3**

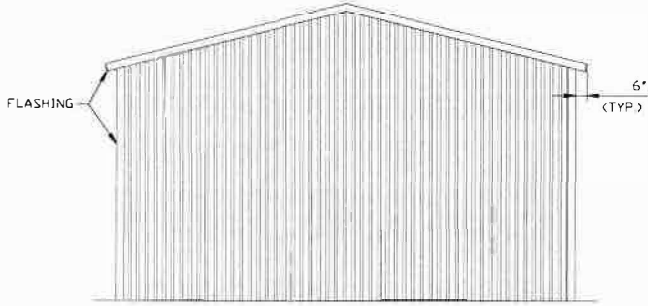
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20376S/21118S**

**REV: 3**

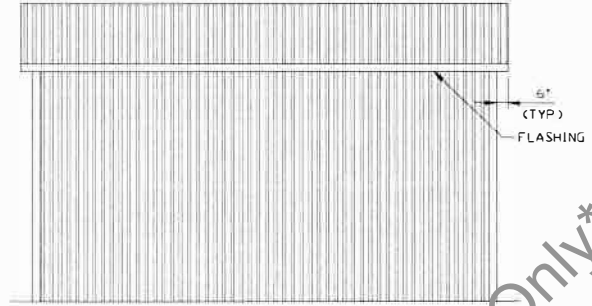
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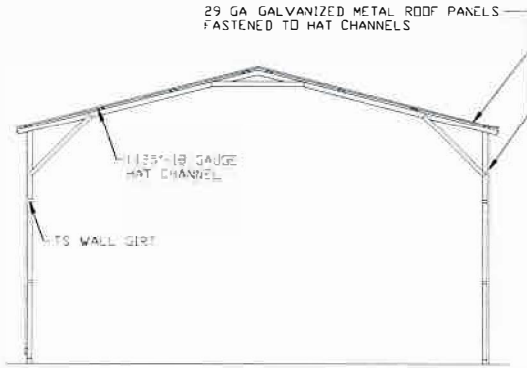
**BOX EAVE RAFTER VERTICAL ROOF OPTION**



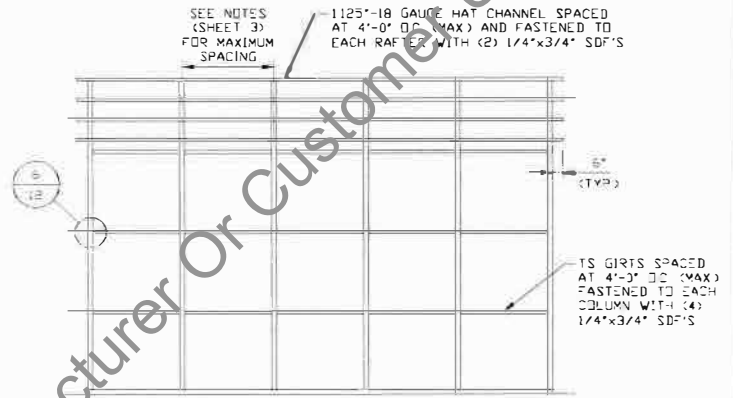
**TYPICAL END ELEVATION  
VERTICAL ROOF**  
SCALE: NTS



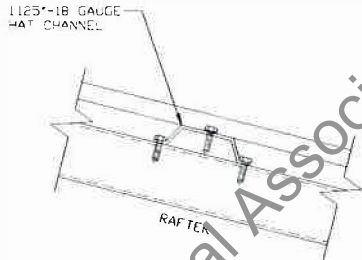
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF**  
SCALE: NTS



**TYPICAL SECTION  
VERTICAL ROOF OPTION**  
SCALE: NTS



**TYPICAL FRAMING SECTION  
VERTICAL ROOF OPTION**  
SCALE: NTS



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

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**PROJECT MGR: WSM**

**CLIENT: CC**

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MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 17**

**SCALE: NTS**

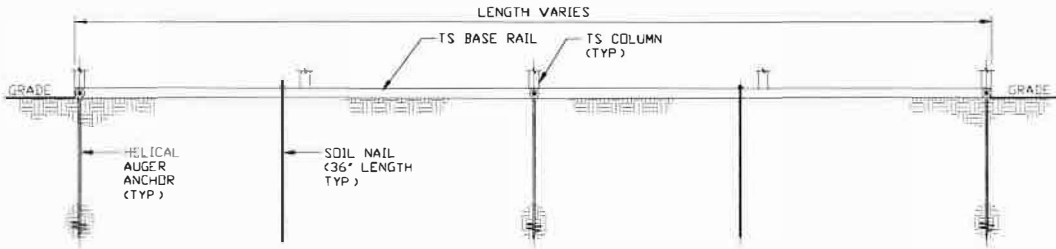
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**JOB NO: 17171S/18253S/  
20376S/21118S**

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**OPTIONAL BASE RAIL ON GRADE APPLICATION**

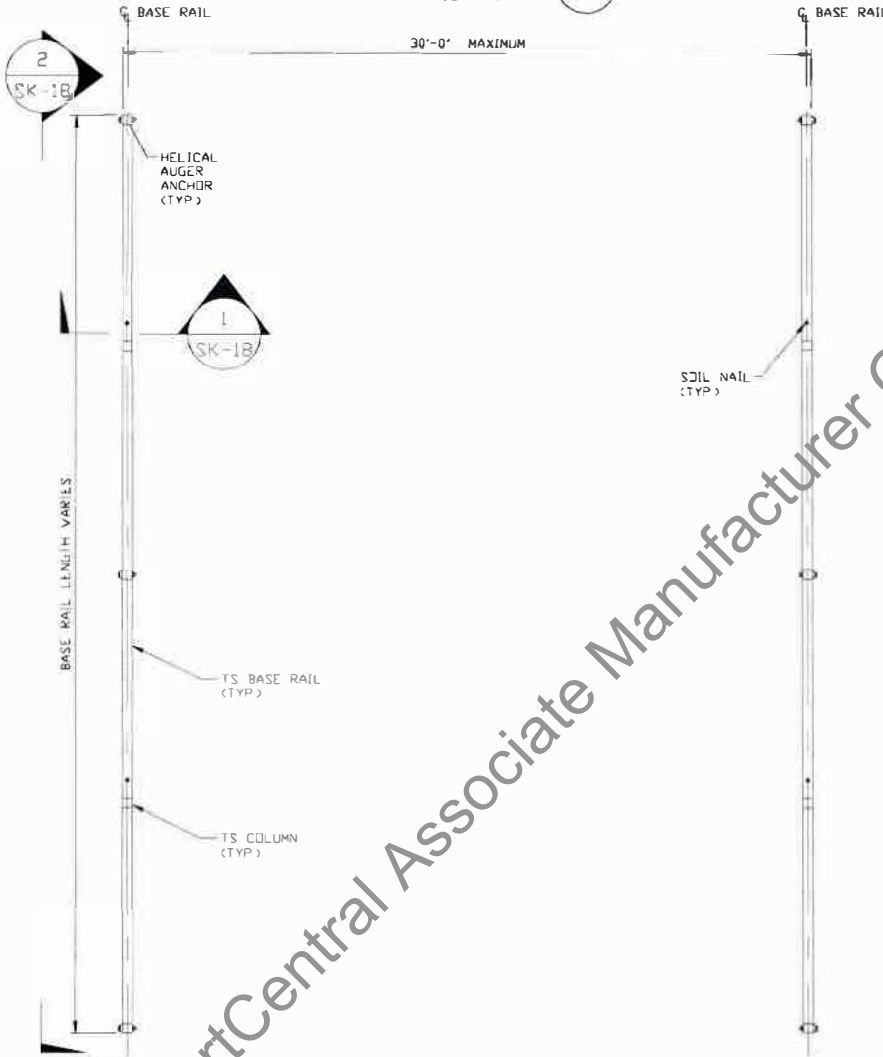


**SECTION 2**  
SCALE: NTS  
SK-18



**SECTION 1**  
SCALE: NTS  
SK-18

NOTE: SEE DETAIL 3B SHEET 9 FOR HELICAL AUGER ANCHOR DETAIL



**BASE RAIL PLAN**  
SCALE: NTS

HELIX ANCHOR	
SIZE	SPACING
*LENGTH	
VARIES	10'-0" (AT EVERY OTHER COLUMN)

**MOORE AND ASSOCIATES  
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CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 18

SCALE: NTS

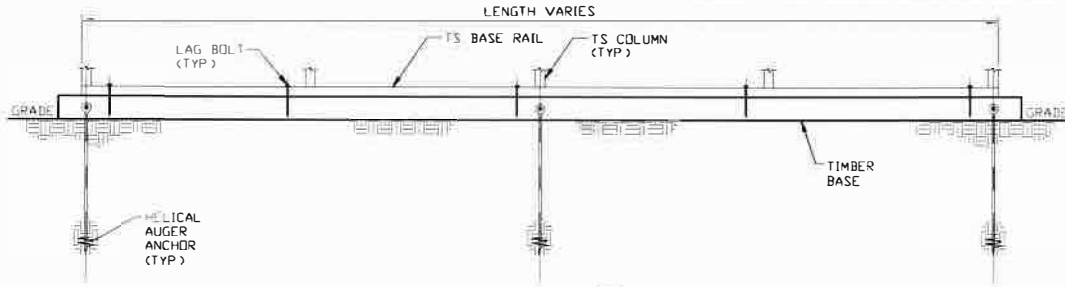
DWG. NO: SK-3

JOB NO: 17171S/18253S/  
20376S/2118S

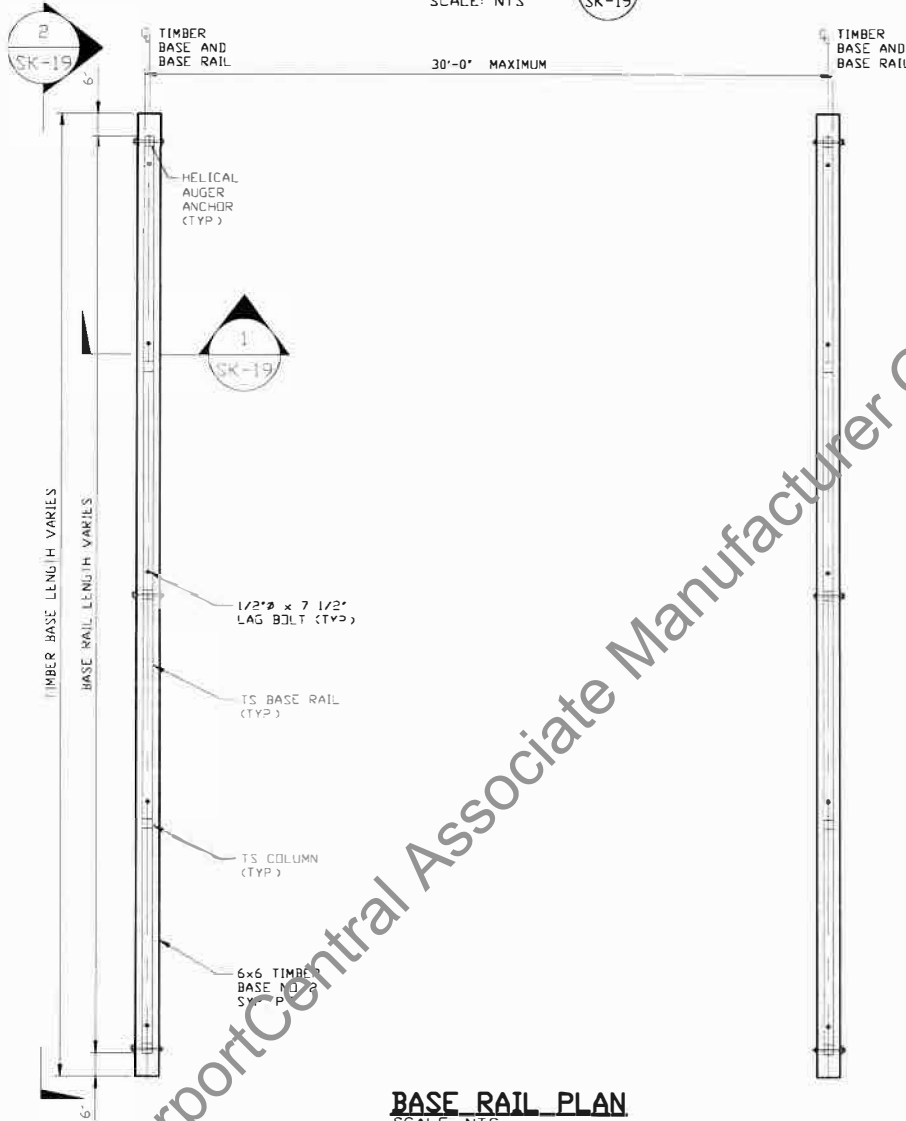
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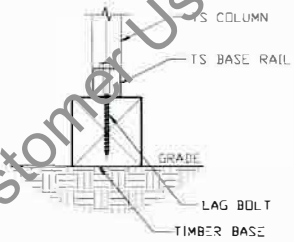
**OPTIONAL BASE RAIL ON TIMBER BEAM**



**SECTION 2**  
SCALE: NTS  
SK-19



**BASE RAIL PLAN**  
SCALE: NTS



**SECTION 1**  
SCALE: NTS  
SK-19

NOTE SEE DETAIL 3B SHEET 9  
FOR HELICAL AUGER ANCHOR  
DETAIL

** HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	10'-0" (AT EVERY OTHER COLUMN)

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

**DRAWN BY: JG**

**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: CC**

CARPORIT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 19**

**SCALE: NTS**

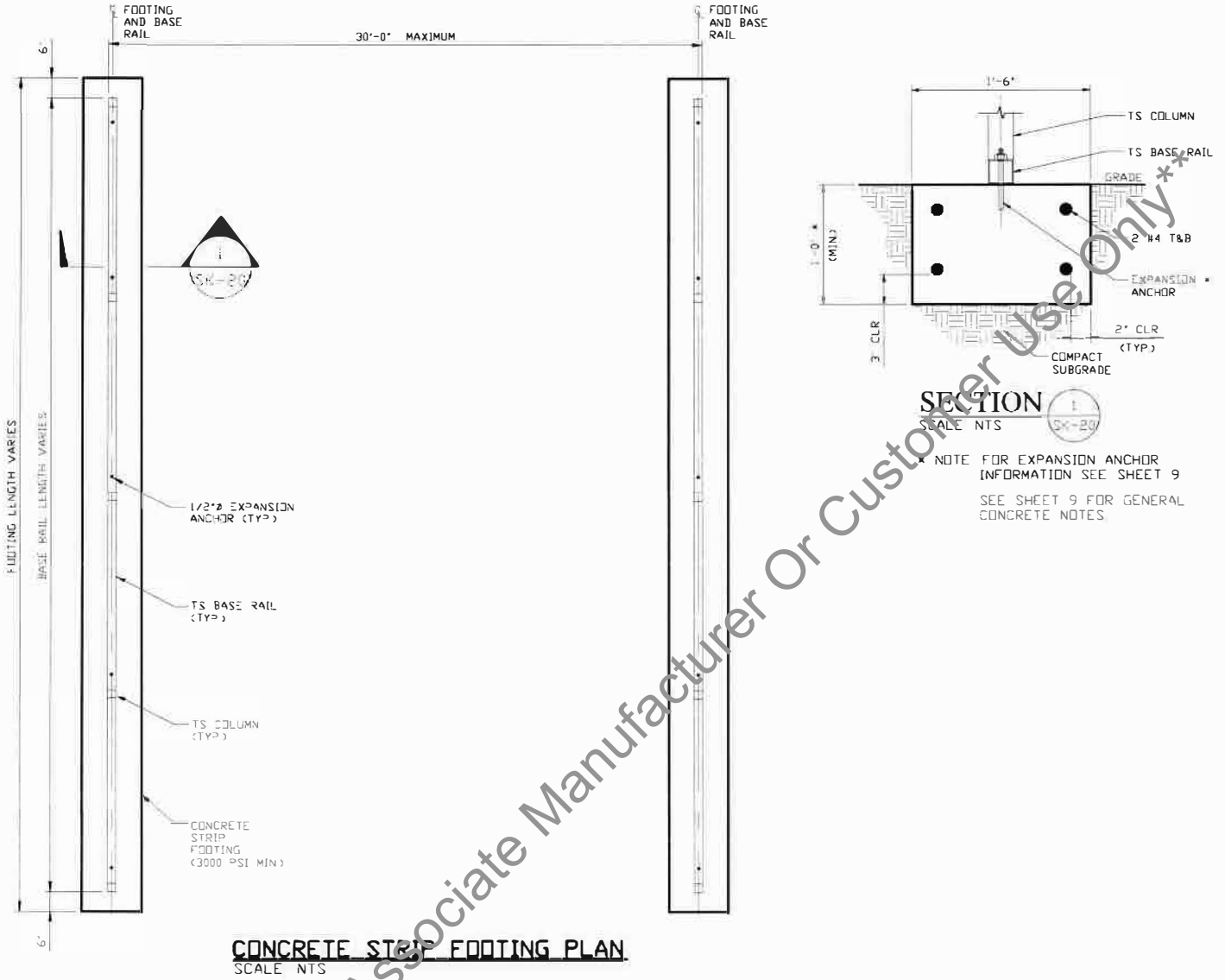
**DWG. NO SK-3**

**JOB NO: 17171S/18253S/  
20376S/2111BS**

**REV: 3**

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**OPTIONAL CONCRETE STRIP FOOTING**



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

**DRAWN BY: JG**

**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: CC**

CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 20**

**SCALE: NTS**

**DWG. NO: SK-3**

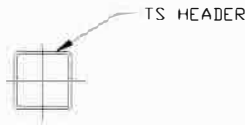
**JOB NO: 17171S/18253S/  
20376S/21118S**

**REV: 3**

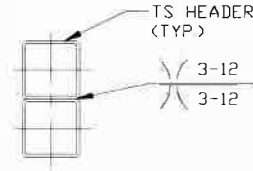
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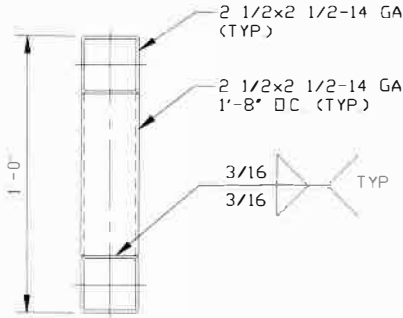
**SIDE WALL HEADER OPTIONS**



**HEADER DETAIL FOR OPENINGS  
≤ 7'-0"**  
SCALE: NTS

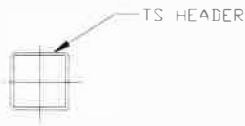


**HEADER DETAIL FOR OPENINGS  
7'-0" < LENGTH ≤ 12'-0"**  
SCALE: NTS

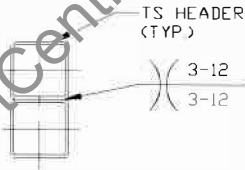


**HEADER DETAIL FOR  
OPENINGS 12'-0" < LENGTH ≤ 20'-0"**  
SCALE: NTS

**END WALL HEADER OPTIONS**



**HEADER DETAIL FOR OPENINGS  
≤ 12'-0"**  
SCALE: NTS



**HEADER DETAIL FOR OPENINGS  
12'-0" < LENGTH ≤ 20'-0"**  
SCALE: NTS

MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 21

SCALE: NTS

DWG. NO: SK-3

JOB NO: 17171S/18253S/  
20376S/21118S

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