



## STRUCTURAL DESIGN

## ENCLOSED BUILDING

MAXIMUM 24'- 0" WIDE X 17'- 0" EAVE HEIGHT-  
BOX EAVE FRAME AND BOW FRAME

9 August 2019

Revision 0

M&A Project No. 19105S

Prepared for:

Carport Central, Inc.  
737 South Main Street  
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



MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING

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

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CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

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

24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 1

SCALE: NTS

DWG. NO: SK-3

JOB NO: 1910SS

REV: 0

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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 6/6/20</p>		

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**INSTALLATION NOTES AND SPECIFICATIONS**

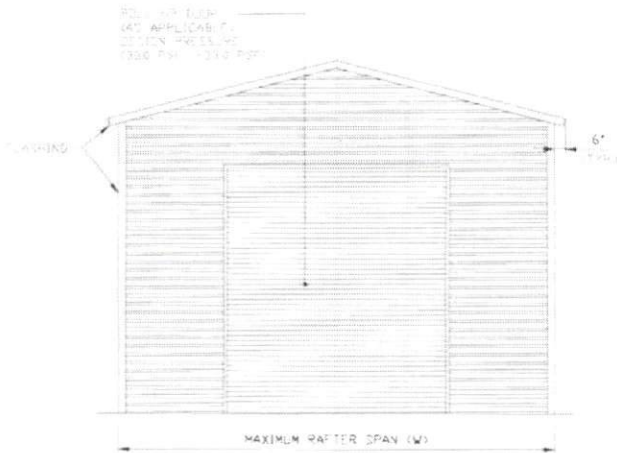
- 1 DESIGN IS FOR MAXIMUM 24'-0" WIDE x 17'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION 2005 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC, AND 2018 IBC.
- 3 DESIGN LOADS ARE AS FOLLOWS
  - A) DEAD LOAD = 15 PSF
  - B) LIVE LOAD = 12 PSF
  - C) GROUND SNOW LOAD = 37 PSF AT 5'-0" OC SPACING  
= 41 PSF AT 4'-0" OC SPACING

NOTE: UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED
- 4 ULTIMATE WIND SPEED 103 TO 127 MPH (NOMINAL WIND SPEED 82 TO 89 MPH)  
MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET
- 5 ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 82 TO 108 MPH)  
MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET
- 6 END WALL COLUMN (POSTS) ARE SIMILAR TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE
- 7 RISK CATEGORY I
- 8 WIND EXPOSURE CATEGORY B
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" x 2 1/4" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES
- 11 FASTENERS CONSIST OF #12-14x3/4" (UNLESS OTHERWISE NOTED) SELF-DRILLING FASTENER (SDF) USE CONTACT SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS. ALL ROOF SLOPES OF 14" (3:12) PITCH OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG. SOIL NAILS MAY BE USED FOR MAXIMUM WIND V = 145 MPH AND IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN UNSUITABLE SOILS AND MUST BE USED FOR WIND V > 145 MPH AND/OR IN UNSUITABLE SOILS AS NOTED
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:  
 SOIL SITE CLASS = D  
 RISK CATEGORY I/II/III  
 P = 325                      I<sub>m</sub> = 1.0  
 S<sub>DS</sub> = 2.039 g              V = 0.1W  
 S<sub>M</sub> = 1.258 g
- 14 DOOR AND WINDOW PRESSURES APPLICABLE TO THE STATE OF FLORIDA

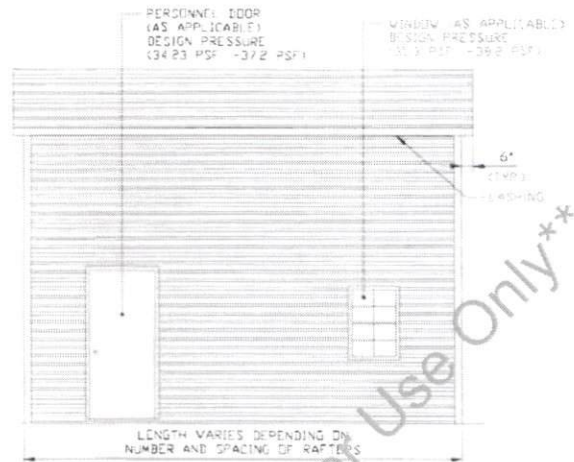
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**BOX EAVE FRAME RAFTER STRUCTURE**

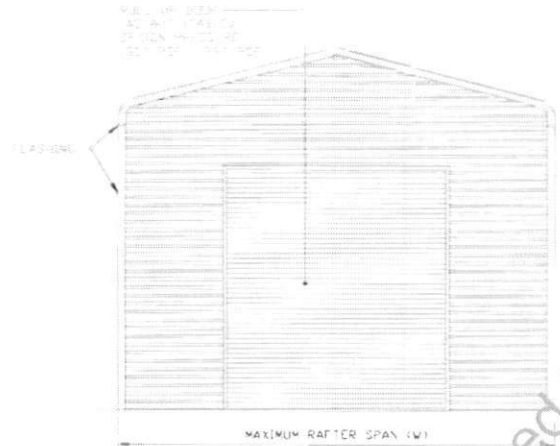


**TYPICAL END ELEVATION-HORIZONTAL ROOF**  
SCALE: NTS

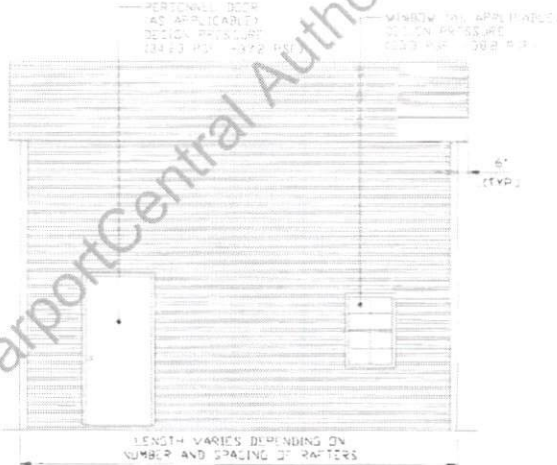


**TYPICAL SIDE ELEVATION-HORIZONTAL ROOF**  
SCALE: NTS

**BOX FRAME RAFTER STRUCTURE**



**TYPICAL END ELEVATION**  
SCALE: NTS



**TYPICAL SIDE ELEVATION**  
SCALE: NTS

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SHT. 4

SCALE: NTS

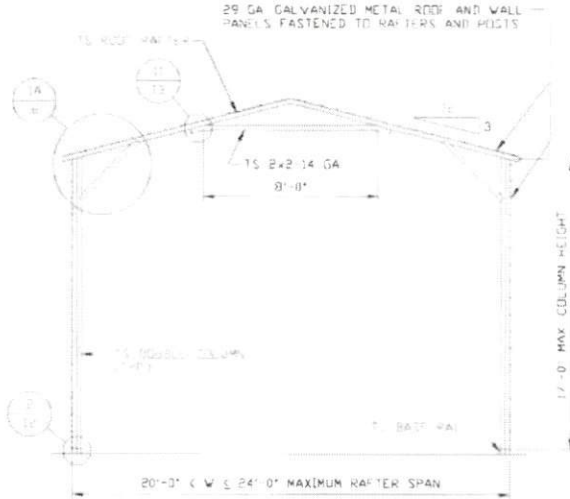
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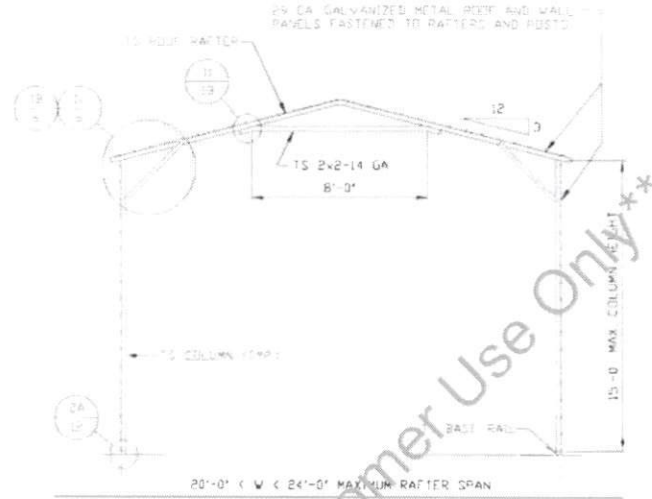
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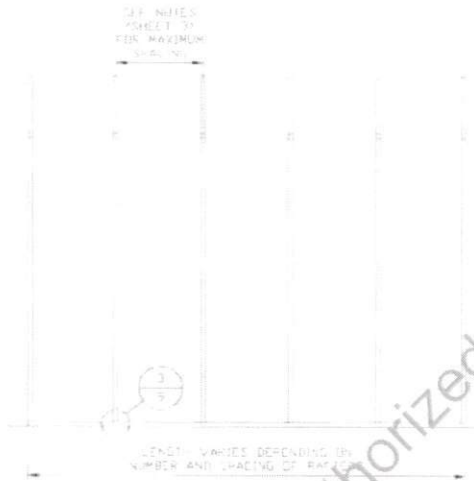
**20'-0" < W ≤ 24'-0" SPAN**



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



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



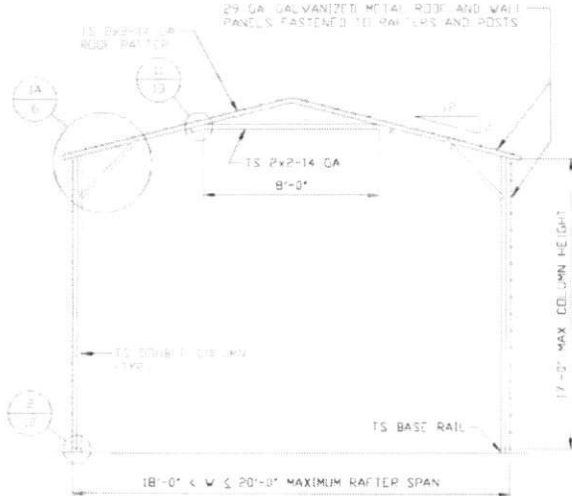
**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
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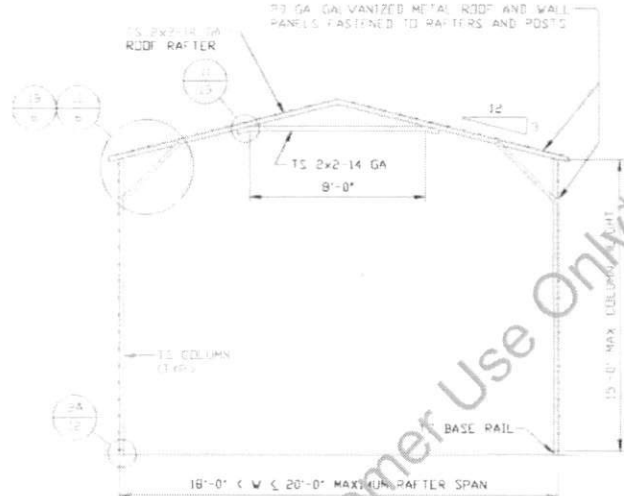


**18'-0" < W ≤ 20'-0" SPAN**



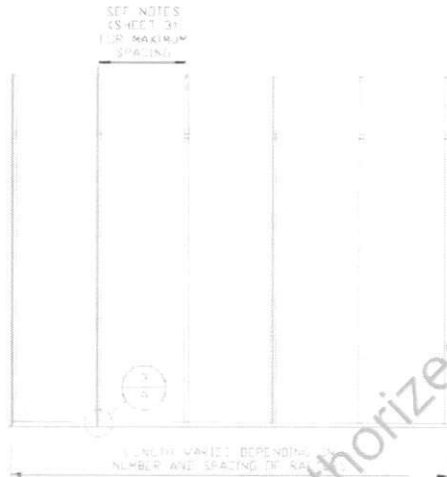
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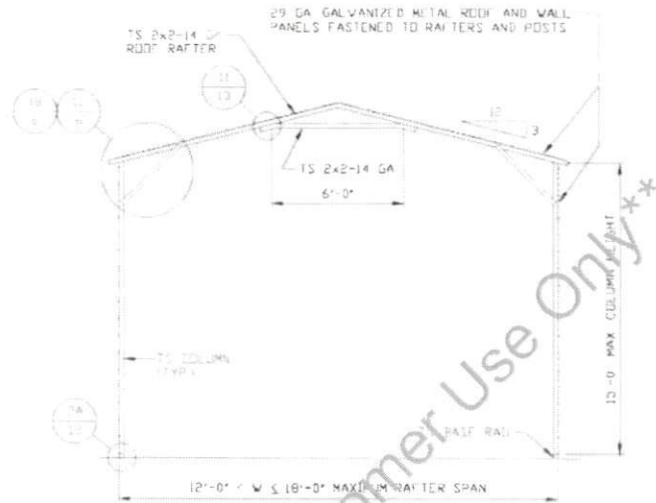
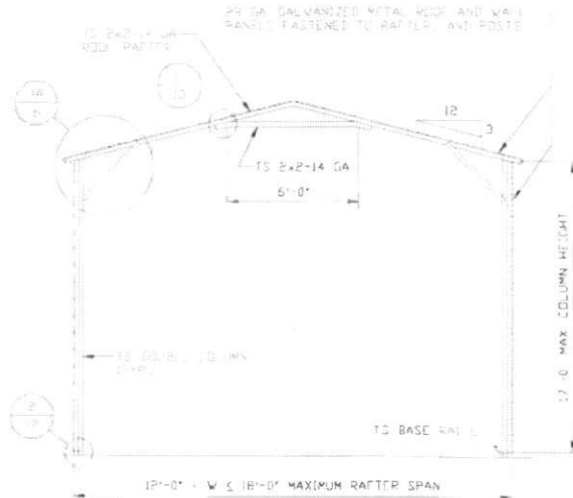
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**12'-0" < W ≤ 18'-0" SPAN**



**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS  
NOTE:  
OPTIONAL 18GA U CHANNEL PEAK BRACE CAN BE UTILIZED IN LIEU OF TUBE STEEL

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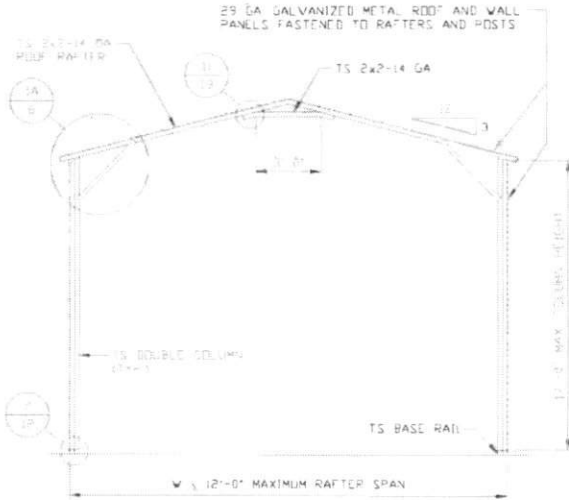
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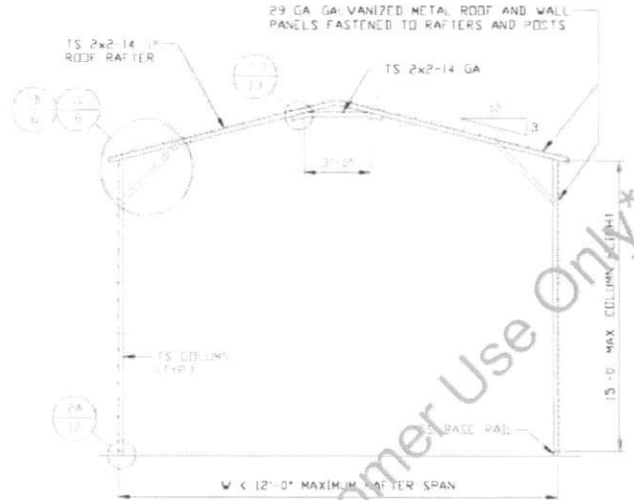
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**TYPICAL RAFTER/COLUMN END FRAME SECTION**

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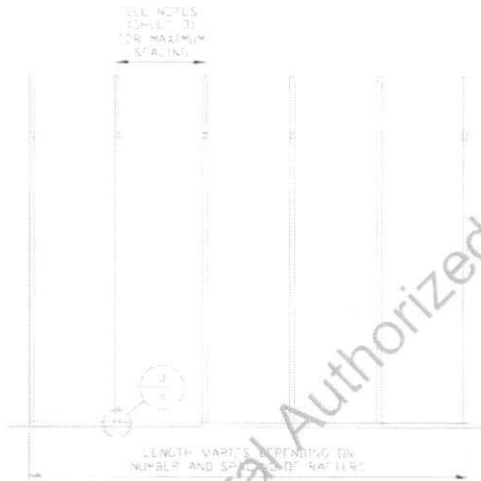
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**TYPICAL RAFTER/COLUMN END FRAME SECTION**

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**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**

SCALE: NTS

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SHT. 5C

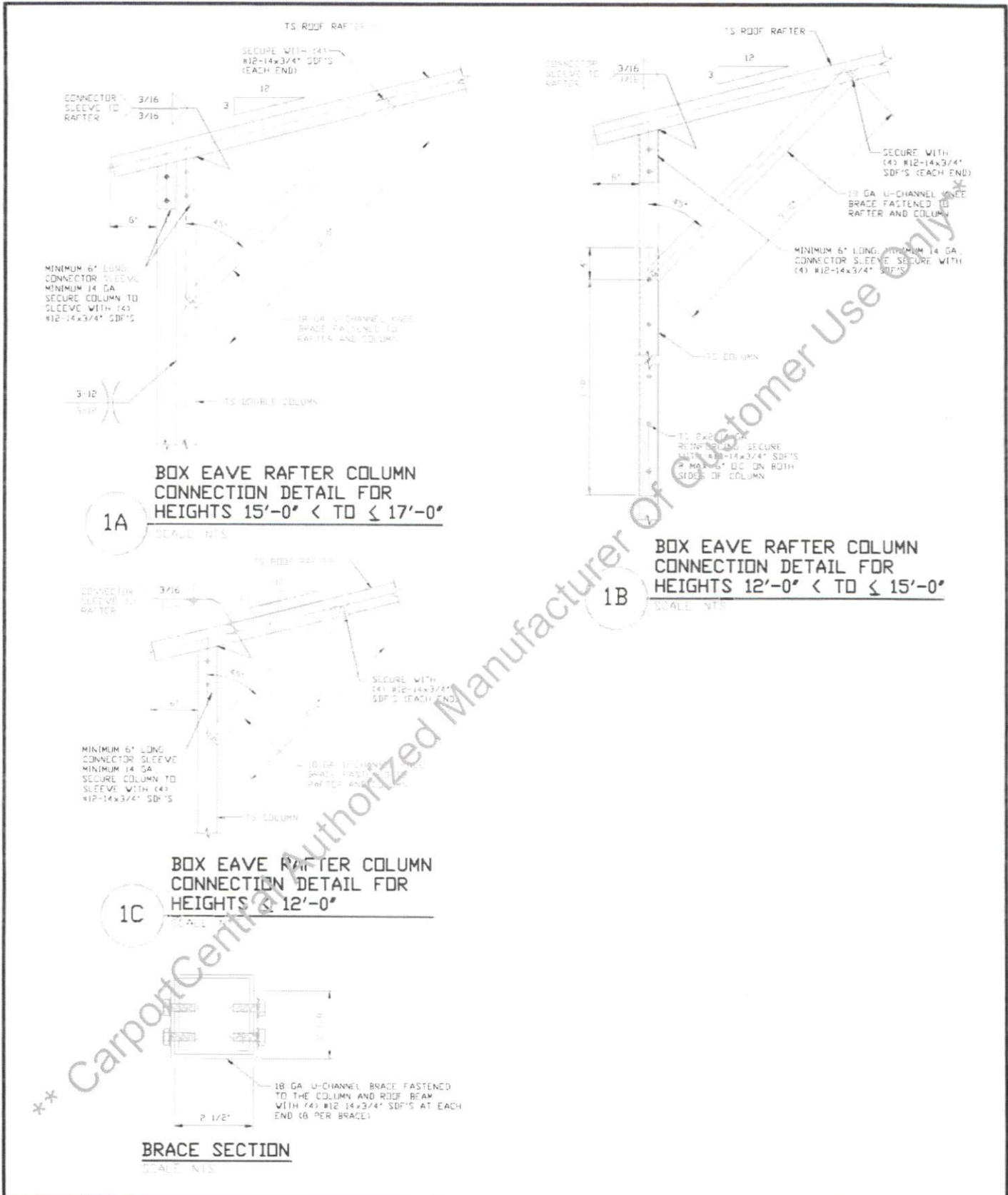
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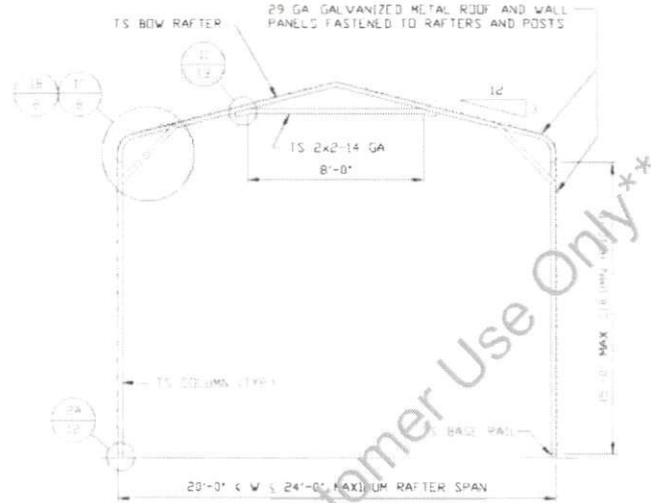
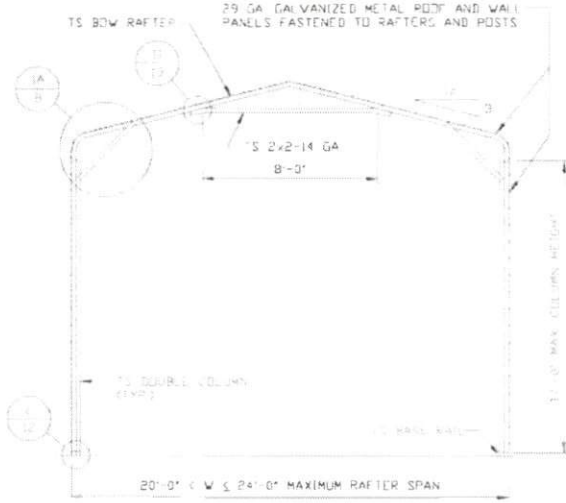
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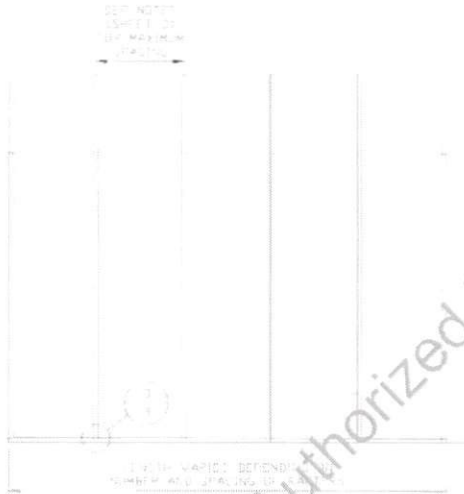
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**20'-0" < W ≤ 24'-0" SPAN**



**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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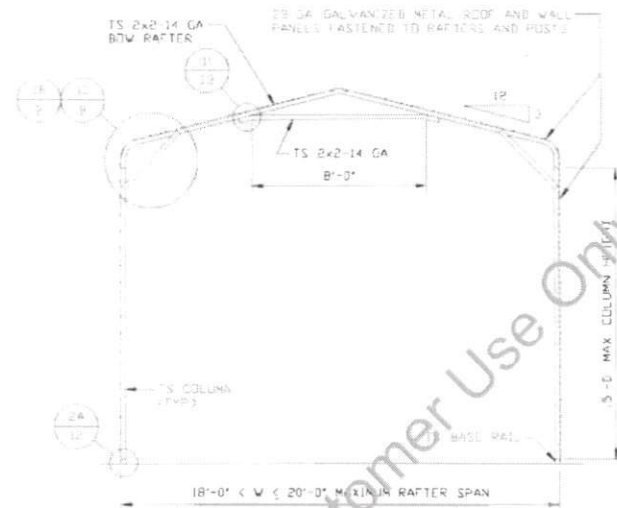
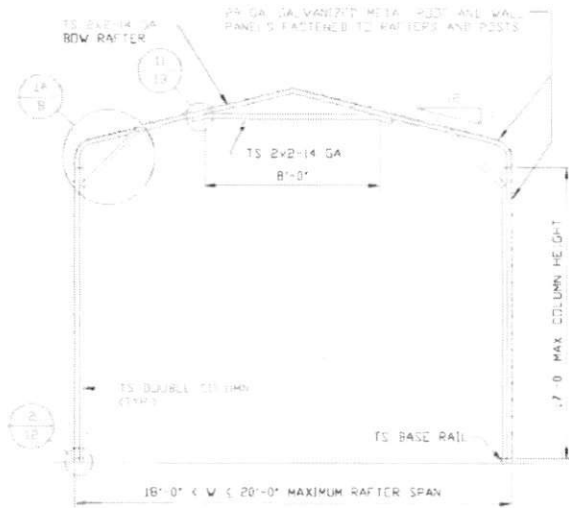
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**18'-0" < W ≤ 20'-0" SPAN**

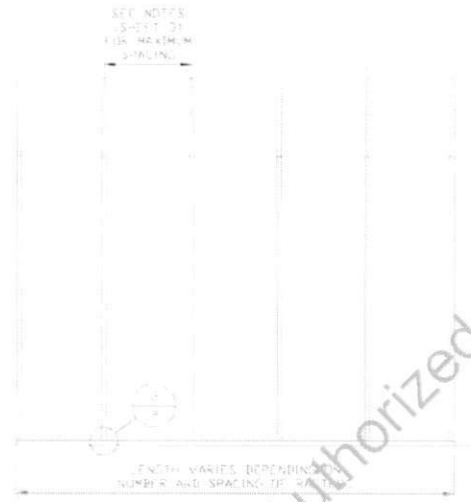


**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS

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**TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION**

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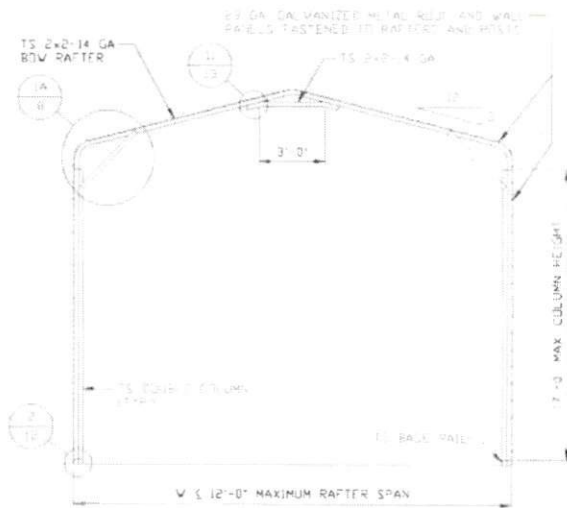
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**W ≤ 12'-0" SPAN**

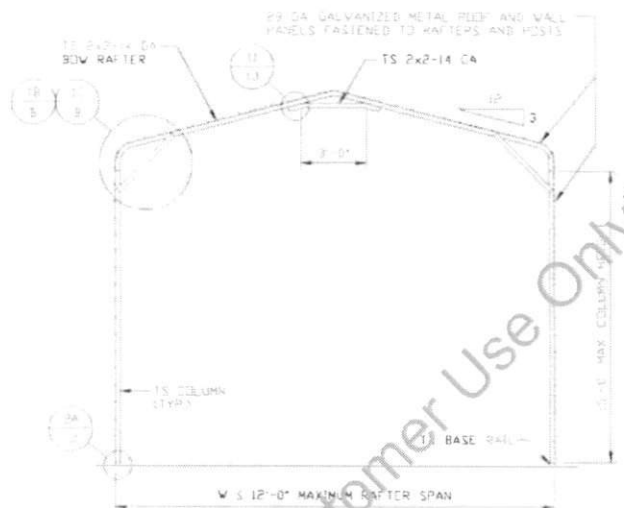


**TYPICAL RAFTER/COLUMN END FRAME SECTION**

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NOTE

OPTIONAL 18GA U CHANNEL PEAK BRACE CAN BE UTILIZED IN LIEU OF TUBE STEEL

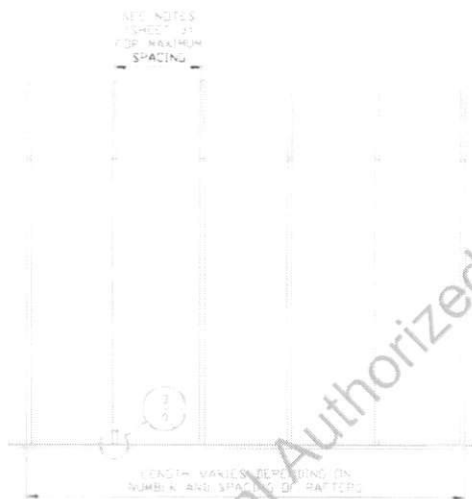


**TYPICAL RAFTER/COLUMN END FRAME SECTION**

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**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: CC

CARPOT CENTRAL, INC  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 7C

SCALE: NTS

DWG. NO: SK-3

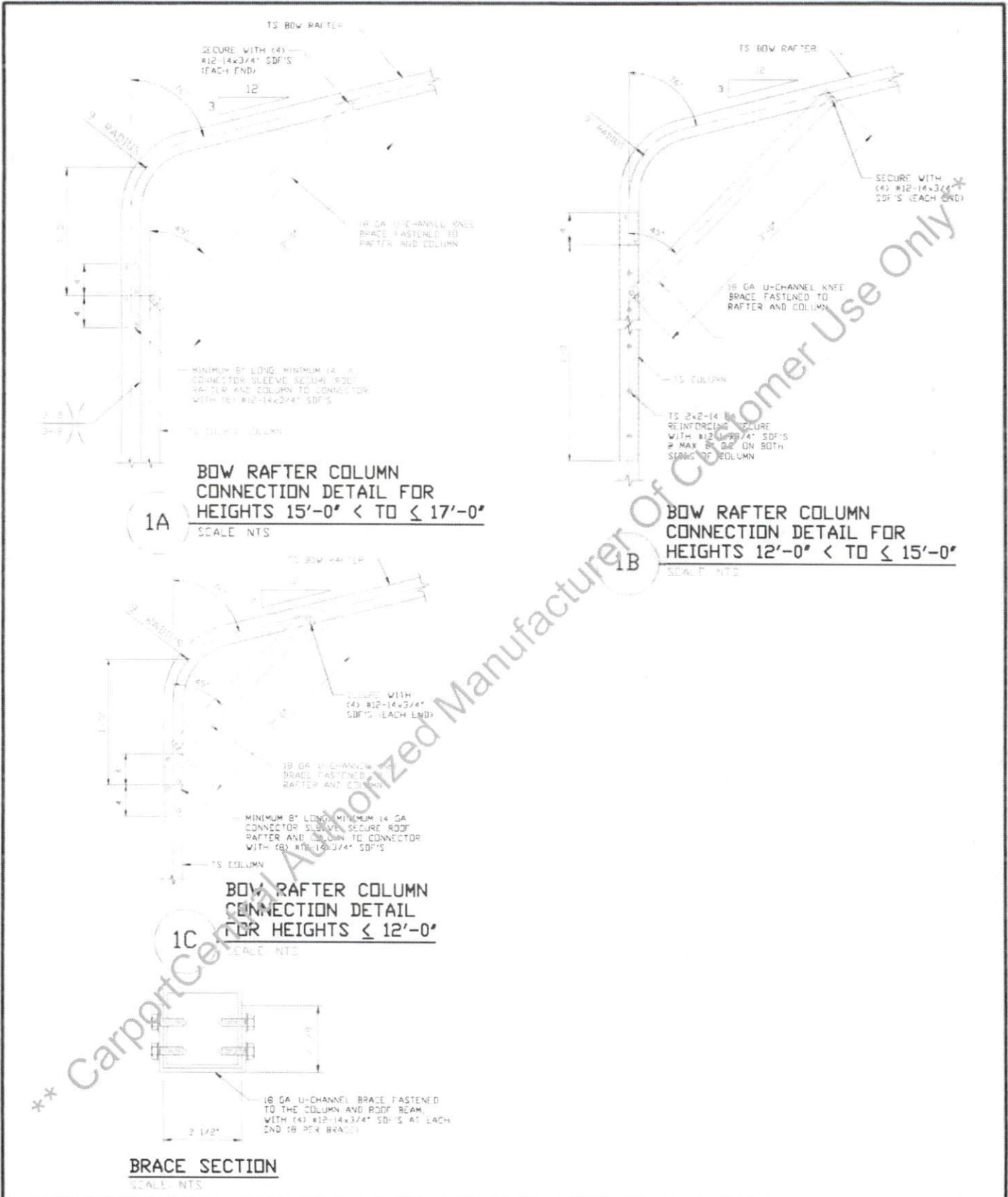
JOB NO: 1910SS

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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

CARPORT CENTRAL, INC  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0"x17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 8

SCALE: NTS

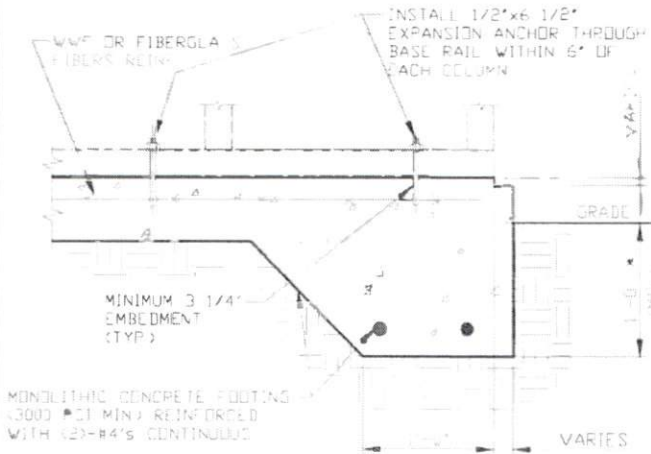
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JOB NO: 191055

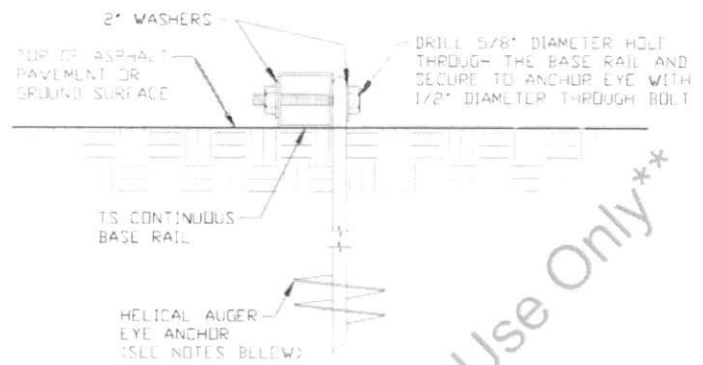
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**BASE RAIL ANCHORAGE OPTIONS**



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



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

**GENERAL NOTES**

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

**CONCRETE:**

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

**COVER OVER REINFORCING STEEL:**

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318.

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

**REINFORCING STEEL:**

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

**REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:**

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

**HELICAL AUGER ANCHOR NOTES:**

1. FOR VERY DENSE AND/OR COMPACTED 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 DURAL 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 50' EMBEDMENT.

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

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 9

SCALE: NTS

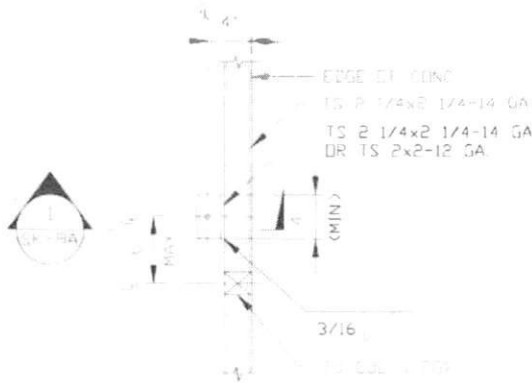
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JOB NO: 191055

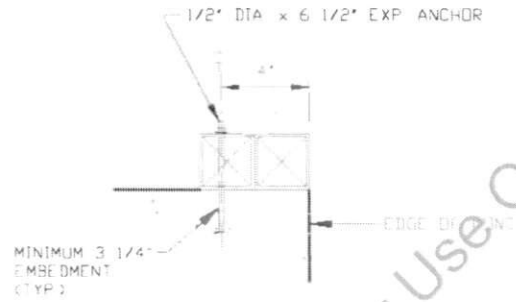
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**BASE RAIL ANCHORAGE OPTIONS**



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

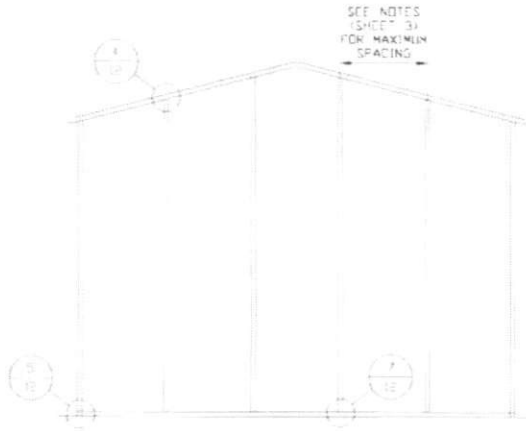


**SECTION**  
SCALE: NTS

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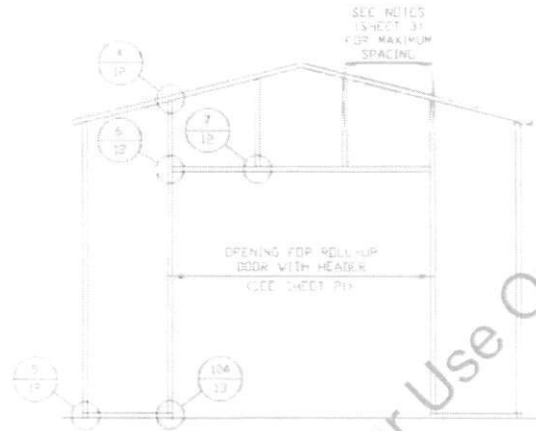
<b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b>	DRAWN BY: LT	CARPORT CENTRAL, INC 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 24'-0" x 17'-0" ENCLOSED STRUCTURE		
	CHECKED BY: PDH			
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	CLIENT: CC	SHT: 9A	DWG. NO: SK-3	REV: 0

**BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



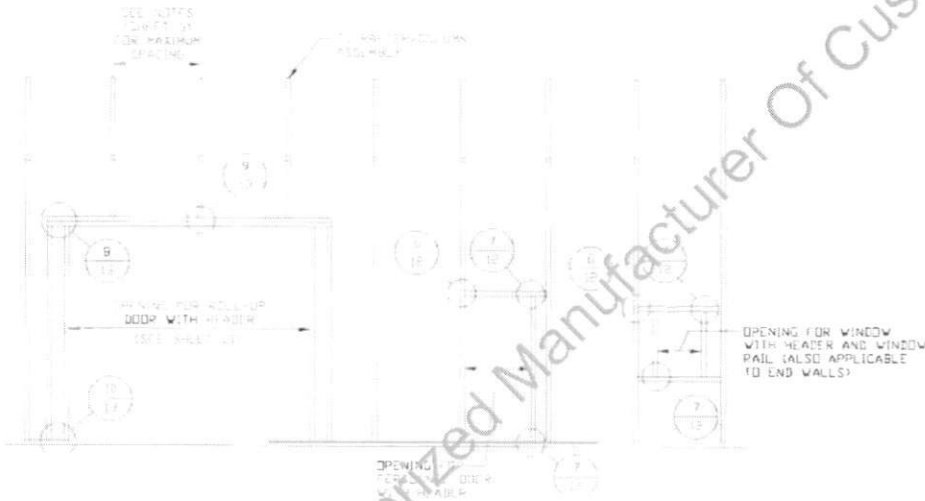
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CC

CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 10

SCALE: NTS

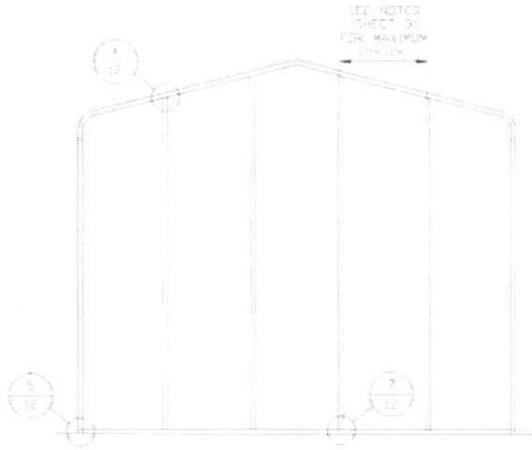
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JOB NO: 191055

REV: 0

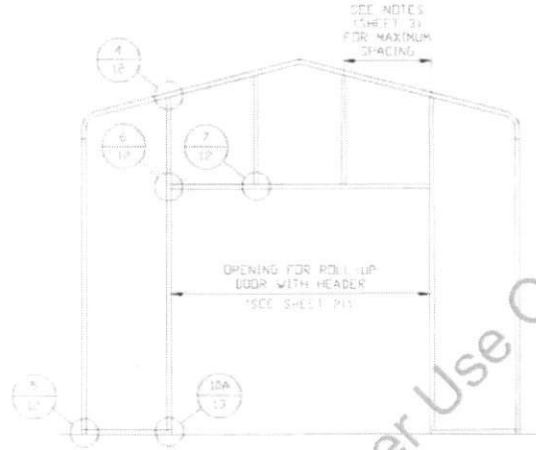
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**BOW RAFTER END WALL AND SIDE WALL OPENINGS**



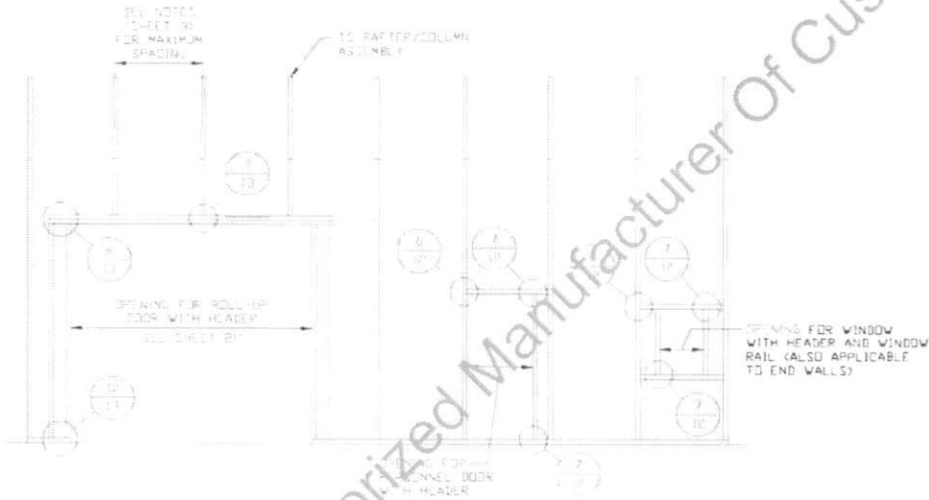
**TYPICAL BOW RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 11

SCALE: NTS

DWG. NO: SK-3

JOB NO: 191055

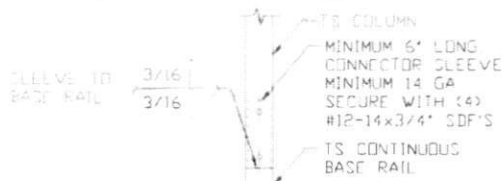
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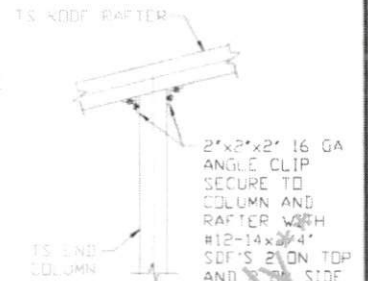
**CONNECTION DETAILS**



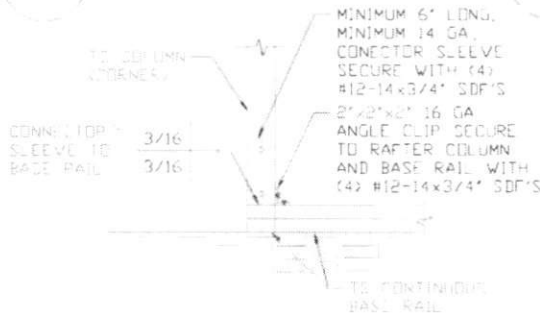
**2**  
**RAFTER COLUMN/  
BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



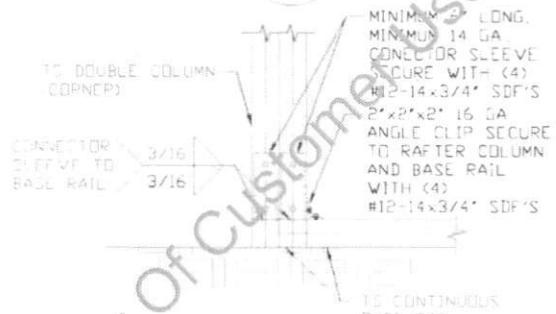
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**RAFTER COLUMN/  
BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



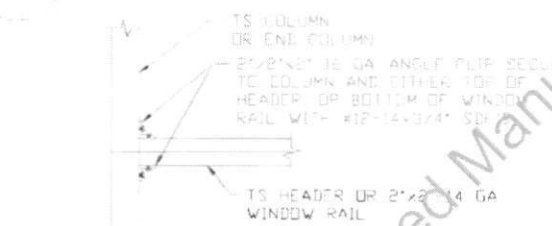
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**END COLUMN/RAFTER  
CONNECTION DETAIL**  
SCALE: NTS



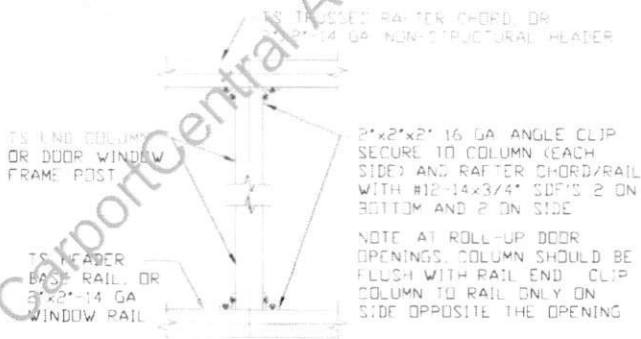
**5**  
**END COLUMN/BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



**5A**  
**END COLUMN/BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



**6**  
**COLUMN OR WINDOW  
RAIL TO POST  
CONNECTION DETAIL**  
SCALE: NTS



**7**  
**COLUMN TO HEADER, BASE RAIL, OR  
WINDOW RAIL CONNECTION DETAIL**  
SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

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

24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 12

SCALE: NTS

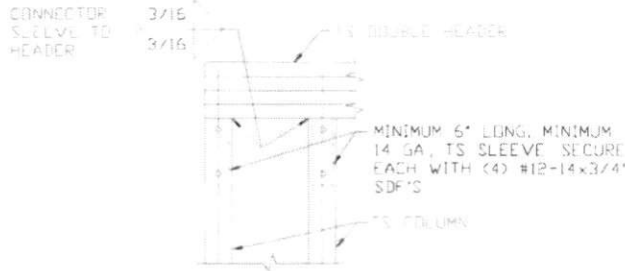
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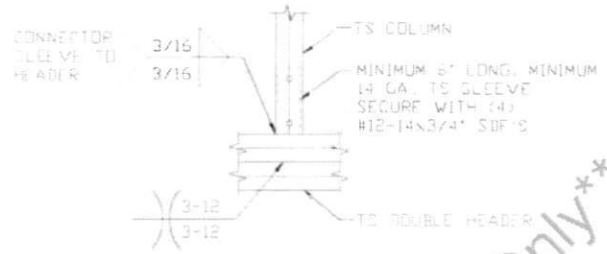
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**CONNECTION DETAILS**



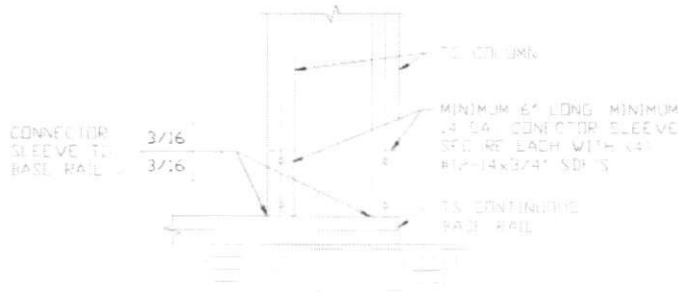
**8** DOUBLE HEADER/COLUMN CONNECTION DETAIL

SCALE: NTS



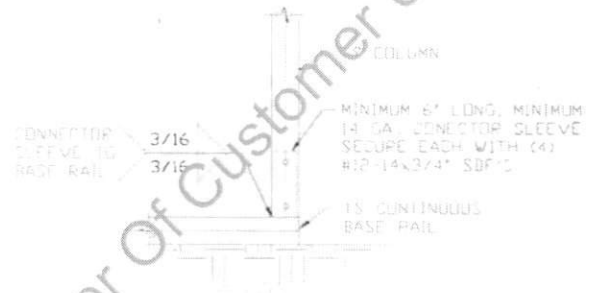
**9** COLUMN/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS



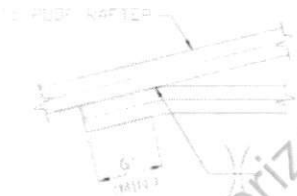
**10** COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



**10A** COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



**11** COLLAR TIE CONNECTION DETAIL

SCALE: NTS

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**PROJECT MGR: WSM**

**CLIENT: CC**

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

**24'-0" x 17'-0" ENCLOSED STRUCTURE**

**DATE: 8-9-19**

**SHT. 13**

**SCALE: NTS**

**DWG. NO: SK-3**

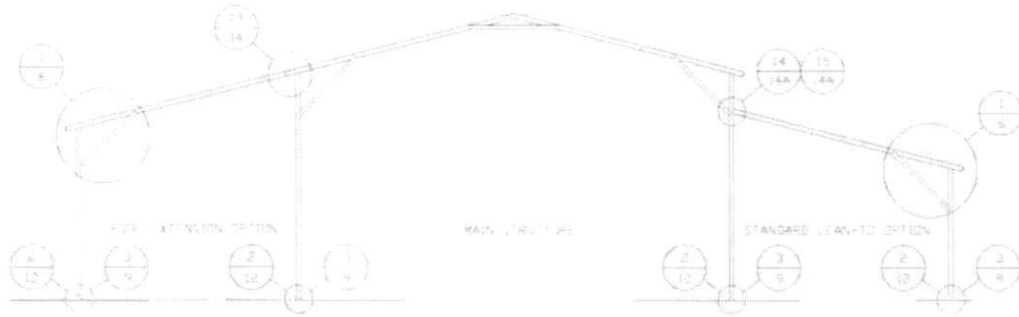
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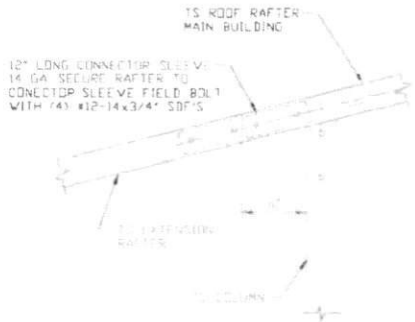
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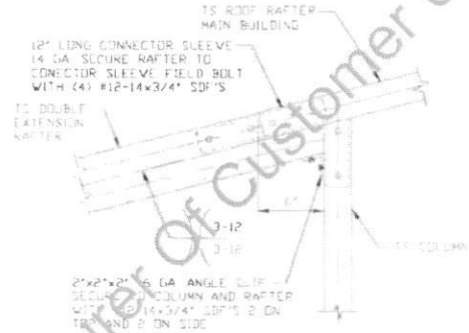
**BOX EAVE RAFTER LEAN-TO OPTIONS**



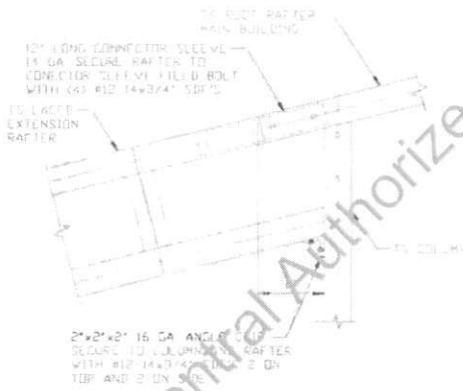
**TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)**  
SCALE: NTS



**13** SIDE EXTENSION RAFTER/COLUMN  
DETAIL FOR SPAN  $\le 10'-0''$   
SCALE: NTS



**13A** SIDE EXTENSION RAFTER/COLUMN  
DETAIL FOR SPAN  $10'-0'' < L \le 16'-0''$   
SCALE: NTS



**13B** SIDE EXTENSION RAFTER/COLUMN  
DETAIL FOR SPAN  $16'-0'' < L \le 25'-0''$   
SCALE: NTS

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CLIENT: CC

CARPORT CENTRAL, INC  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 14

SCALE: NTS

DWG. NO: SK-3

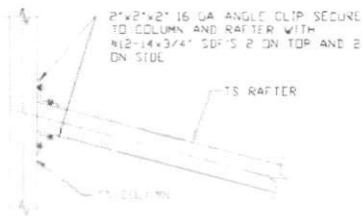
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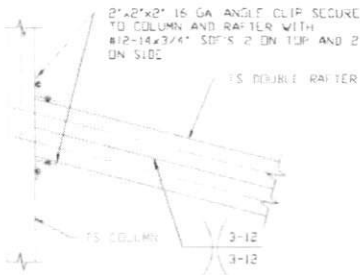
**LEAN-TO OPTIONS**



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $\le 10'-0''$**

14

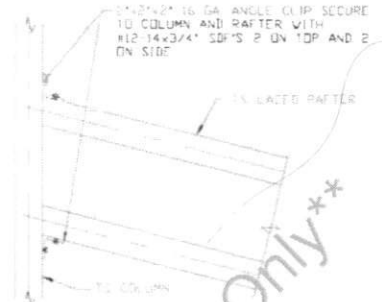
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**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $10'-0'' < L \le 16'-0''$**

14A

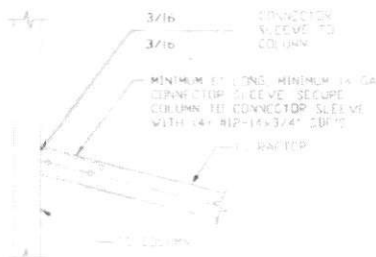
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**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $16'-0'' < L \le 25'-0''$**

14B

SCALE: NTS



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $\le 10'-0''$**

15

SCALE: NTS



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $10'-0'' < L \le 16'-0''$**

15A

SCALE: NTS



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $16'-0'' < L \le 25'-0''$**

\*15B

SCALE: NTS

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 14A

SCALE: NTS

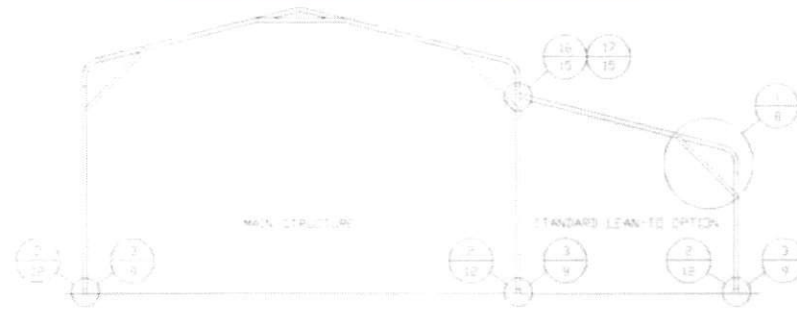
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JOB NO: 1910SS

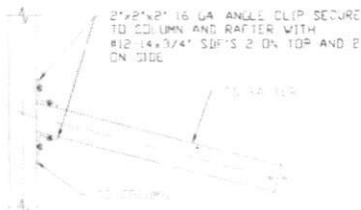
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**BOW RAFTER LEAN-TO OPTION**



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



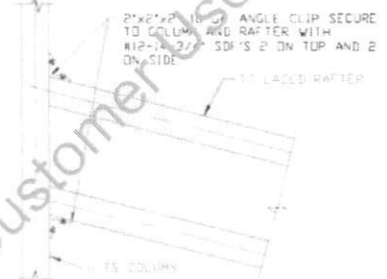
**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $\leq 10'-0"$**

16



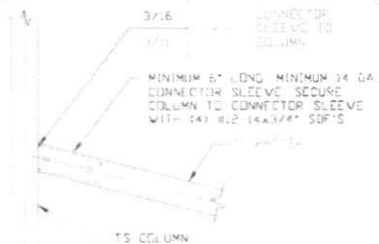
**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $10'-0" < L \leq 16'-0"$**

16A



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $16'-0" < L \leq 25'-0"$**

16B



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $\leq 10'-0"$**

17



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $10'-0" < L \leq 16'-0"$**

17A



**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN  $16'-0" < L \leq 25'-0"$**

17B

MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING, INC.

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CLIENT: CC

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 15

SCALE: NTS

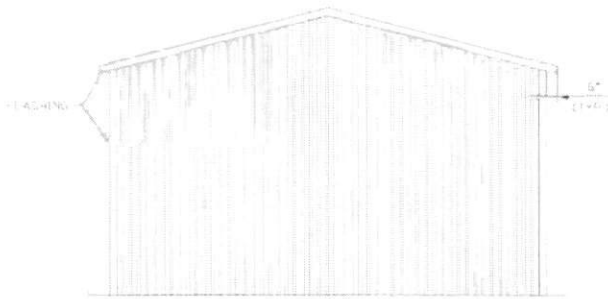
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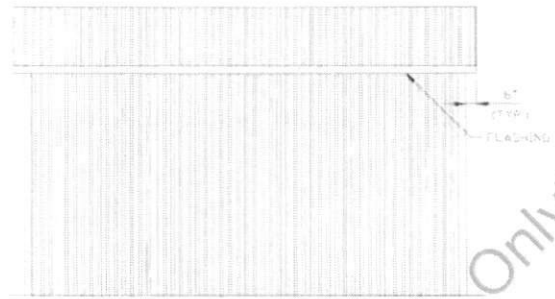
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**BOX EAVE RAFTER VERTICAL ROOF OPTION**



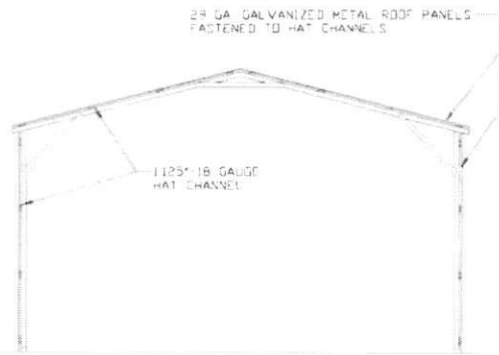
**TYPICAL END ELEVATION  
VERTICAL ROOF**

SCALE: NTS



**TYPICAL SIDE ELEVATION  
VERTICAL ROOF**

SCALE: NTS



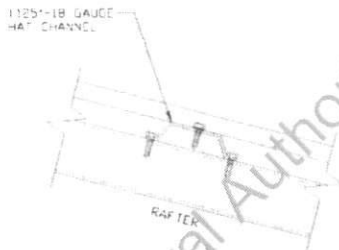
**TYPICAL SECTION  
VERTICAL ROOF OPTION**

SCALE: NTS



**TYPICAL FRAMING SECTION  
VERTICAL ROOF OPTION**

SCALE: NTS



**PANEL ATTACHMENT**

ALTERED FOR VERTICAL ROOF PANELS  
SCALE: NTS

MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 16

SCALE: NTS

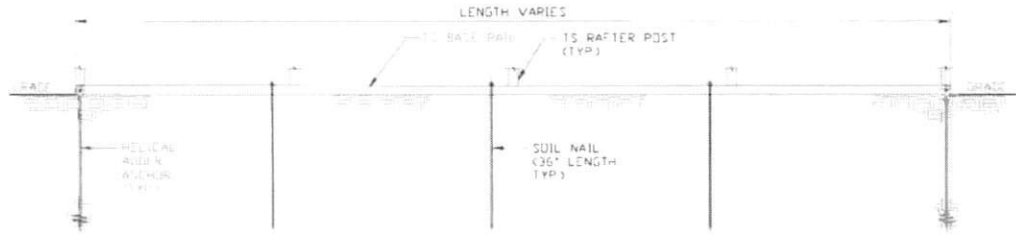
DWG. NO: SK-3

JOB NO: 1910SS

REV: 0

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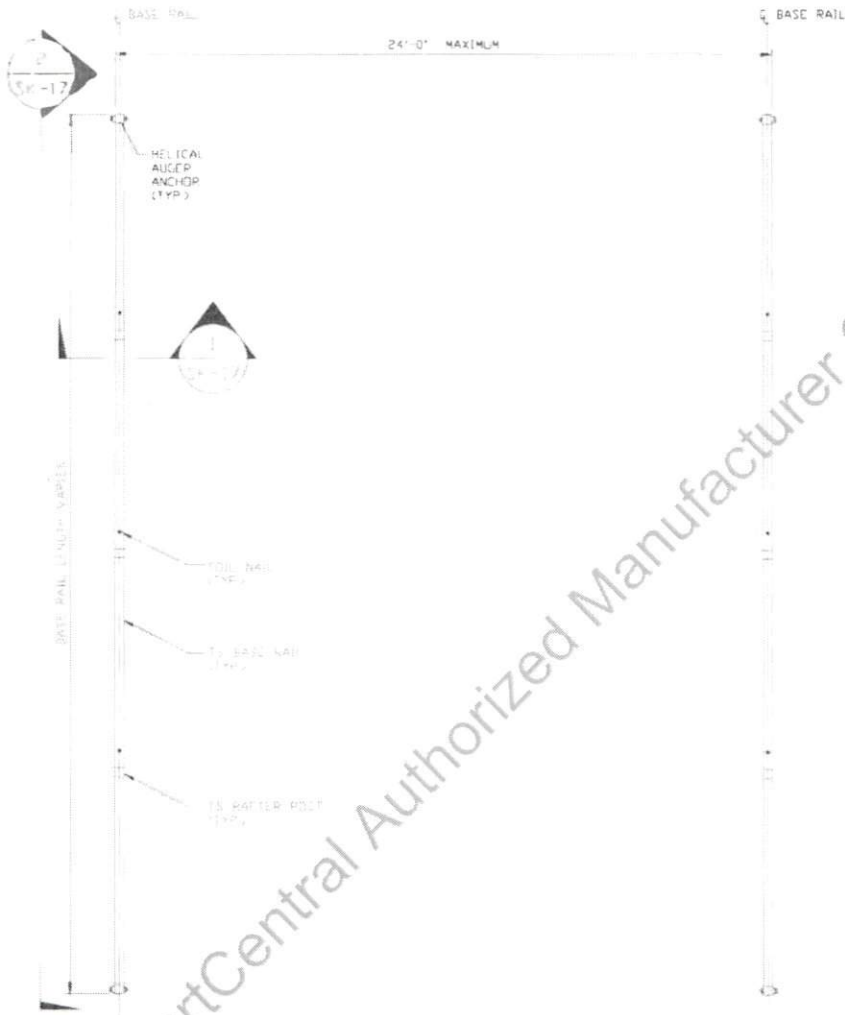
**OPTIONAL BASE RAIL ON GRADE APPLICATION**



SECTION 1  
SCALE: NTS



SECTION 2  
SCALE: NTS



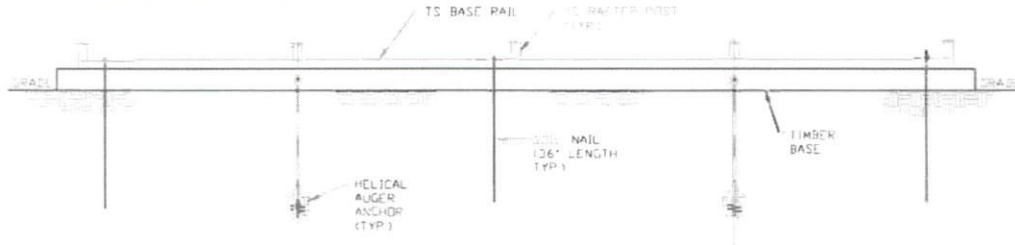
**BASE RAIL PLAN**  
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0"
30'-0"	15'-0"

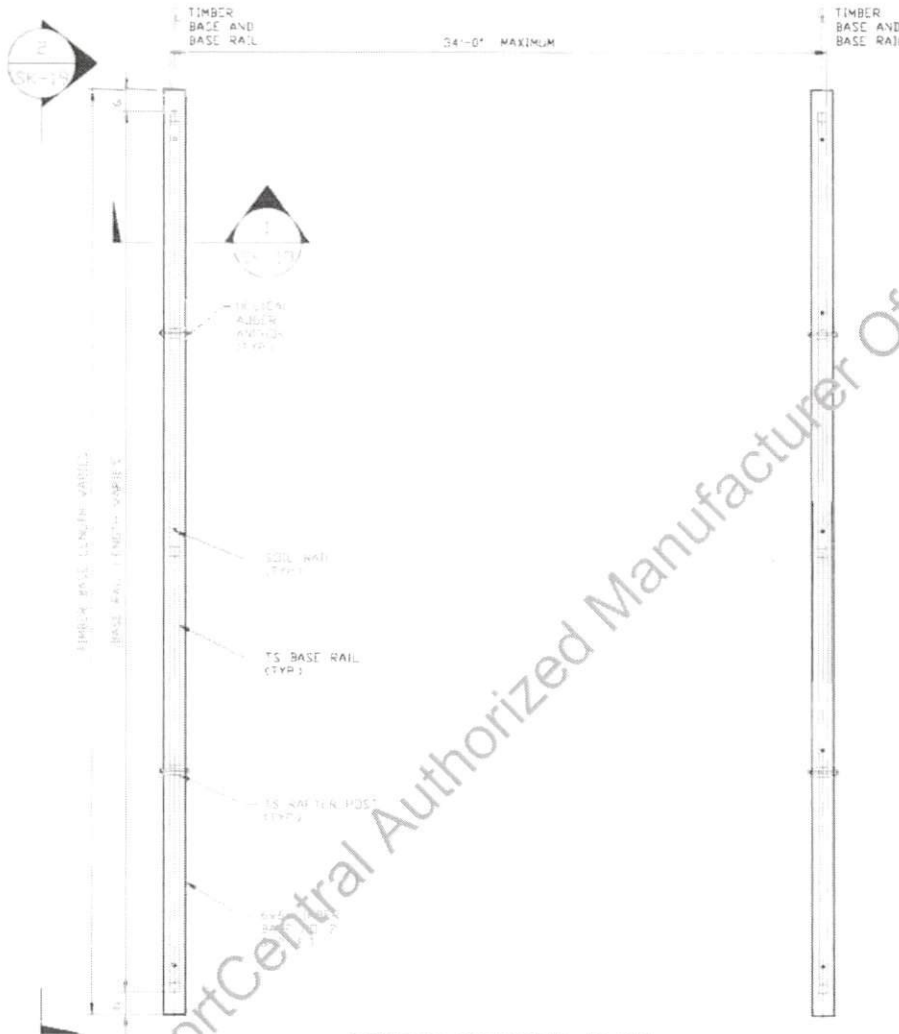
<b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b>	DRAWN BY: LT	CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 24'-0" x 17'-0" ENCLOSED STRUCTURE			
	CHECKED BY: PDH	PROJECT MGR: WSM	DATE: 8-9-19	SCALE: NTS	JOB NO: 191096
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**OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL**



SECTION 2  
SCALE: NTS  
SK-19



SECTION 1  
SCALE: NTS  
SK-19

**TIMBER FOOTING PLAN**  
SCALE: NTS

HELIX ANCHOR	
** SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0"
30'-0"	15'-0"

NOTES  
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS.

MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CC

CARPORT CENTRAL, INC  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 19

SCALE: NTS

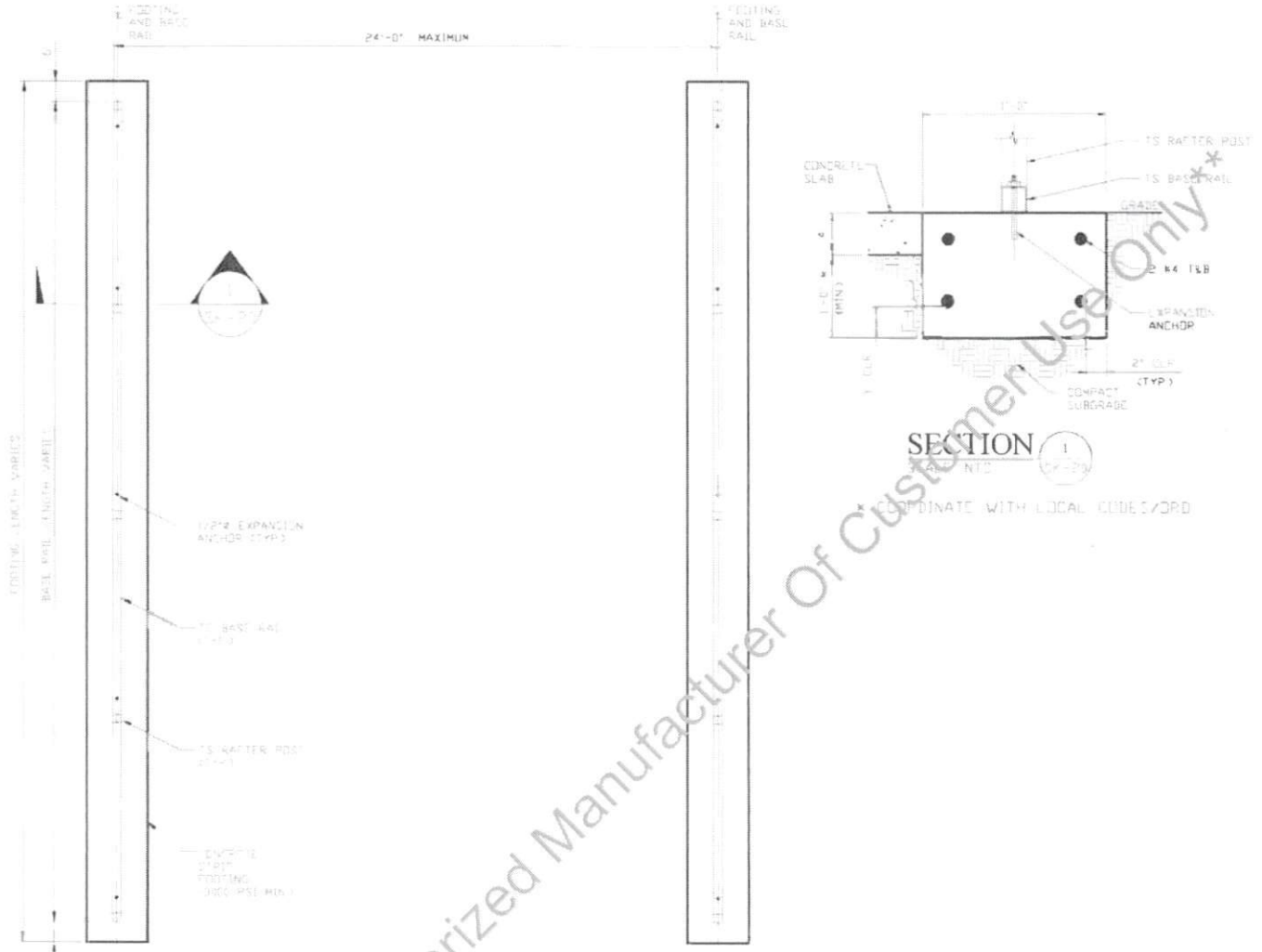
DWG. NO: SK-3

JOB NO: 1910SS

REV: 0

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**OPTIONAL CONCRETE STRIP FOOTING**



**CONCRETE STRIP FOOTING PLAN**  
SCALE: NTS

**SECTION 1**  
SCALE: NTS

COORDINATE WITH LOCAL CODES/ORD

*\*\* CarportCentral Authorized Manufacturer Of Customer Use Only \*\**

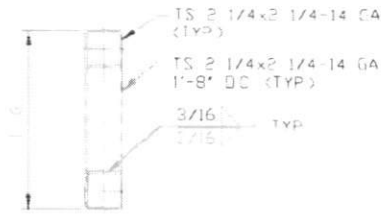
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DRAWN BY: LT  
CHECKED BY: PDH  
PROJECT MGR: WSM  
CLIENT: CC

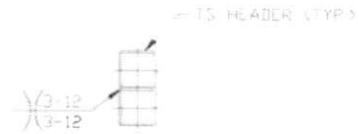
CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
24'-0" x 17'-0" ENCLOSED STRUCTURE  
DATE: 8-9-19  
SCALE: NTS  
JOB NO: 191055  
SHT. 20  
DWG. NO: SK-3  
REV: 0

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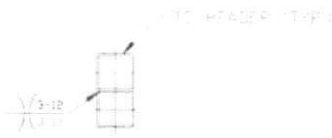
**OPTIONAL HEADER**



HEADER DETAIL FOR SIDE WALL DOOR  
OPENINGS 11'-0" < LENGTH ≤ 20'-0"  
SCALE: NTS



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



HEADER DETAIL FOR SIDE WALL DOOR  
OPENINGS 6'-0" < LENGTH ≤ 11'-0"  
SCALE: NTS



HEADER DETAIL FOR END WALL DOOR  
OPENINGS ≤ 12'-0"  
SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR  
OPENINGS ≤ 6'-0"  
SCALE: NTS

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ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

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

24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 8-9-19

SHT. 21

SCALE: NTS

DWG. NO: SK-3

JOB NO: 191055

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