



Carolina Carports, Inc.

Carports · Buildings · Garages

STRUCTURAL DESIGN

ENCLOSED BUILDING

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

15 January 2018

Revision 7

M&A Project No. 15156S, 16135S & 17324S

NOTICE TO CONTRACTOR

All construction must comply with
current NC Building Codes and is subject
to field inspection and verification.

Prepared for:

Carolina Carports, Inc.
187 Cardinal Ridge Trail
Dobson, NC 27017

Prepared by:

MAY 09 2018

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

HARNETT COUNTY CENTRAL PERMITTING
APPLICATION # BRES1810-0007
JOB NAME Hall
DATE PLANS RECEIVED 10/2/18
SITE PLANS APPROVED 10.5.18
APPROVED BY BSult

AA4



			MAY 09 2018
			

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

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CAROLINA
CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

JOB NO: 15156S 16135S
17324S

SHT. 1

DWG. NO: SK-3

REV.: 7

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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
	CHECKED BY: PDH	PROJECT MGR: WSH	DATE: 1-15-18	SCALE: NTS
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INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2012 NORTH CAROLINA BUILDING CODE 2006 INTERNATIONAL BUILDING CODE (IBC) 2009 IBC 2012 IBC AND 2015 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 30 PSF ($\leq 24'$), 35 PSF ($24' < W \leq 30'$), 35 PSF @ 4'-0" O.C. SPACING ($\leq 24'$) (MAXIMUM 45 PSF FOR EXPOSURE B AND 55 PSF FOR EXPOSURE C AT 4'-0" O.C. SPACING)
- 4 LOW ULTIMATE WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET
- 5 HIGH ULTIMATE WIND SPEED (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET
- 6 RISK CATEGORY I
- 7 WIND EXPOSURE CATEGORY B OR C
- 8 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 9 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS AND COLUMNS (INTERIOR OR END) = 8" O.C. (MAX) 6" O.C. (MAX) FOR HIGH WIND APPLICATIONS
- 10 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
- 11 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES
- 12 GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. NOT ALLOWED FOR HIGH WIND APPLICATION
- 13 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE
 - SOIL SITE CLASS = E
 - RISK CATEGORY I/II/III
 - R = 3.25 I_E = 1.0
 - S_{1S} = 1.522 V = C_SW
 - S_{D1} = 0.639

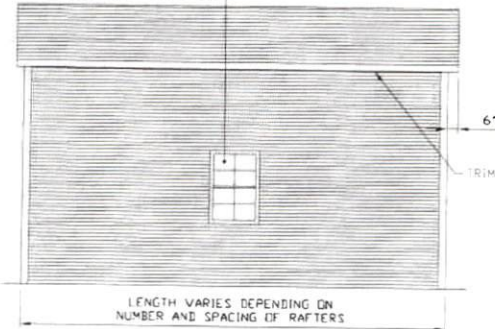


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BOX EAVE FRAME RAFTER STRUCTURE (Sheets 4, 4A, 4B, 4C, 4D, 4E, 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 8, 9, 11, 12, 13, AND 15)

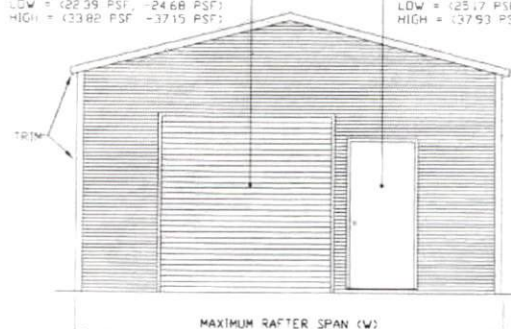
WINDOW (AS APPLICABLE):
DESIGN PRESSURE
LOW = (26.38 PSF -35.21 PSF)
HIGH = (39.75 PSF -49.55 PSF)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

PELL-UP DOOR (AS APPLICABLE):
DESIGN PRESSURE
LOW = (22.39 PSF -24.68 PSF)
HIGH = (33.82 PSF -37.15 PSF)

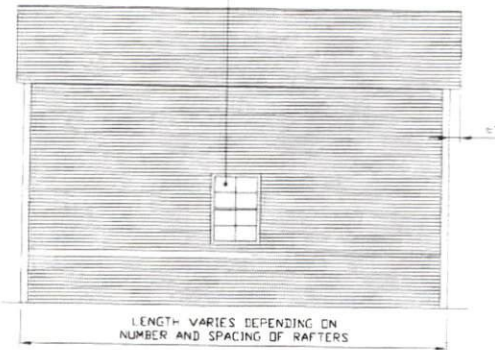
SWINGING DOOR (AS APPLICABLE):
DESIGN PRESSURE
LOW = (25.17 PSF -27.35 PSF)
HIGH = (37.93 PSF -41.32 PSF)



TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

BOX FRAME RAFTER STRUCTURE (Sheets 6, 6A, 7, 7A, 7B, 7C, 8, 10, 11, 12, AND 14)

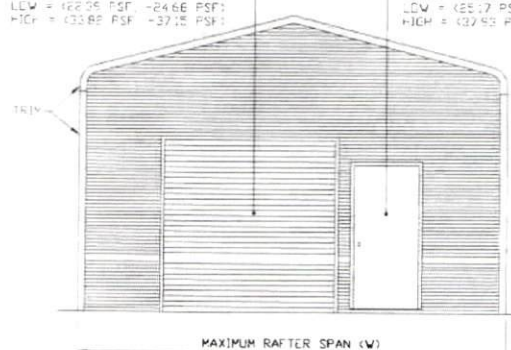
WINDOW (AS APPLICABLE):
DESIGN PRESSURE
LOW = (26.38 PSF -35.21 PSF)
HIGH = (39.75 PSF -49.55 PSF)



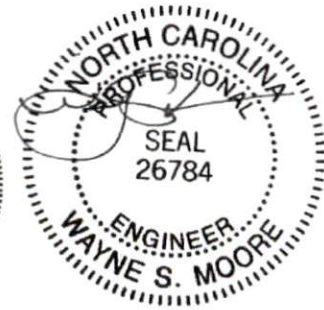
TYPICAL SIDE ELEVATION
SCALE: NTS

PELL-UP DOOR (AS APPLICABLE):
DESIGN PRESSURE
LOW = (22.39 PSF -24.68 PSF)
HIGH = (33.82 PSF -37.15 PSF)

SWINGING DOOR (AS APPLICABLE):
DESIGN PRESSURE
LOW = (25.17 PSF -27.35 PSF)
HIGH = (37.93 PSF -41.32 PSF)



TYPICAL END ELEVATION
SCALE: NTS



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PROJECT MGR: VSM

CLIENT: CAROLINA
CARPORTS

DATE: 1-15-18

SHT. 3B

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

SCALE: NTS

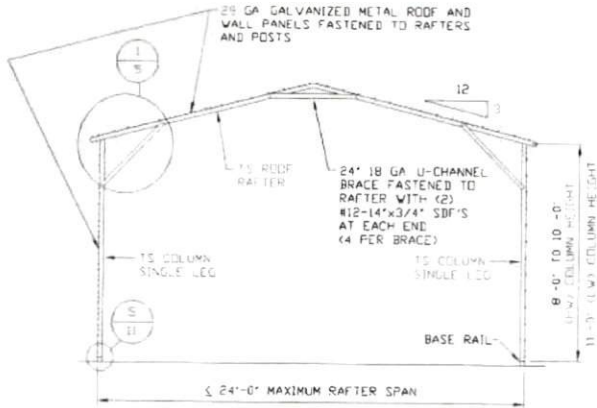
DWG. NO: SK-3

JOB NO: 15156S 16135S
17324S

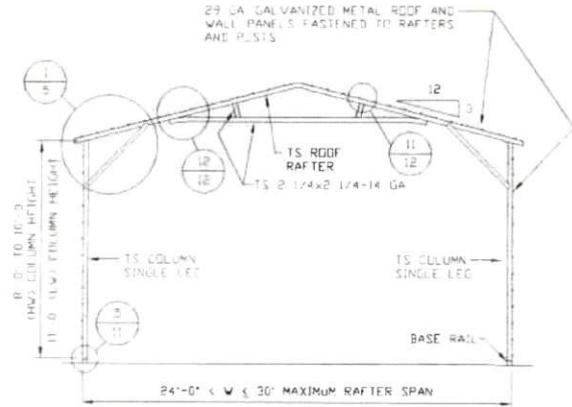
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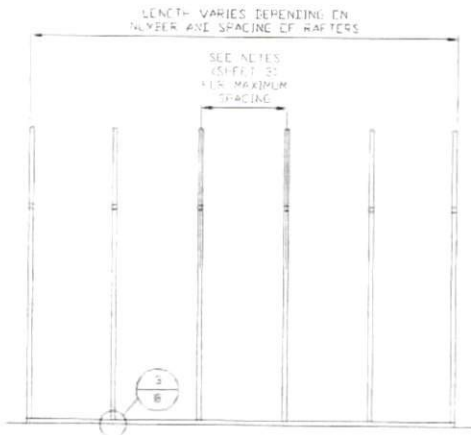
EXPOSURE B



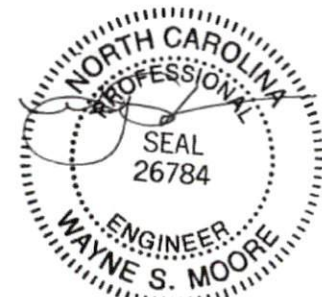
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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CAROLINA CARPORTS, INC.
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DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 4

SCALE: NTS

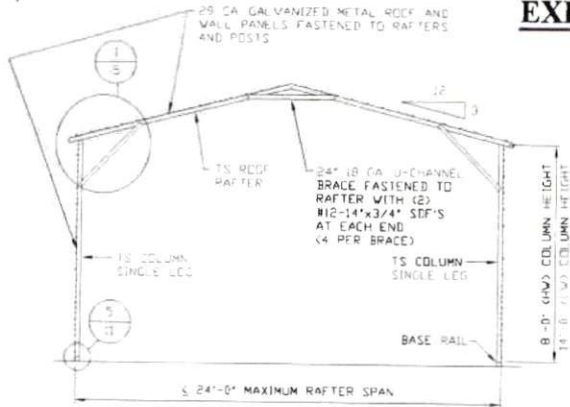
DWG. NO: SK-3

JOB NO: 15156S 1613SS
17324S

REV.: 7

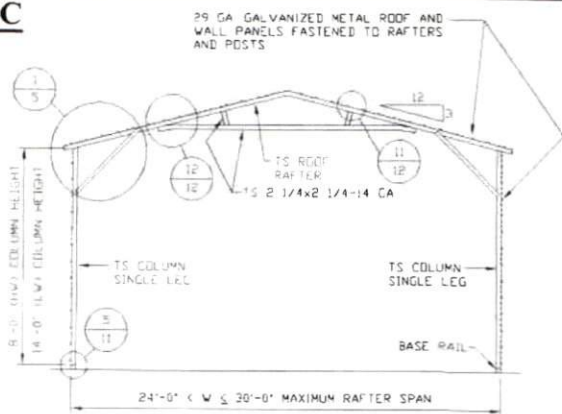
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EXPOSURE C



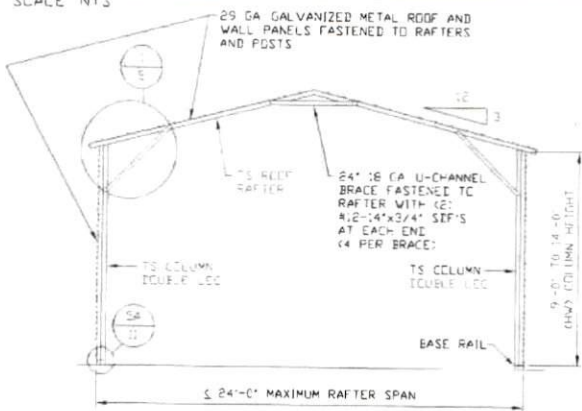
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



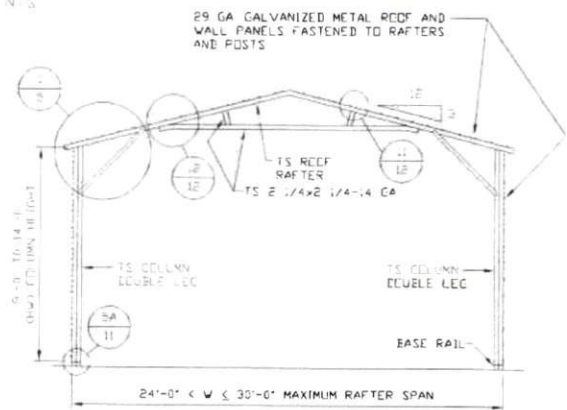
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



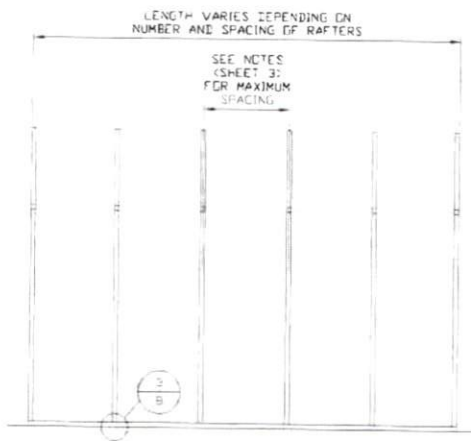
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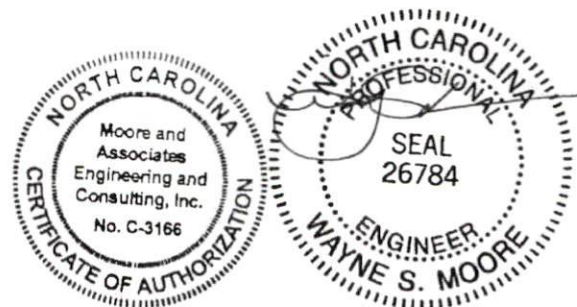
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



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SHT. 4A

SCALE: NTS

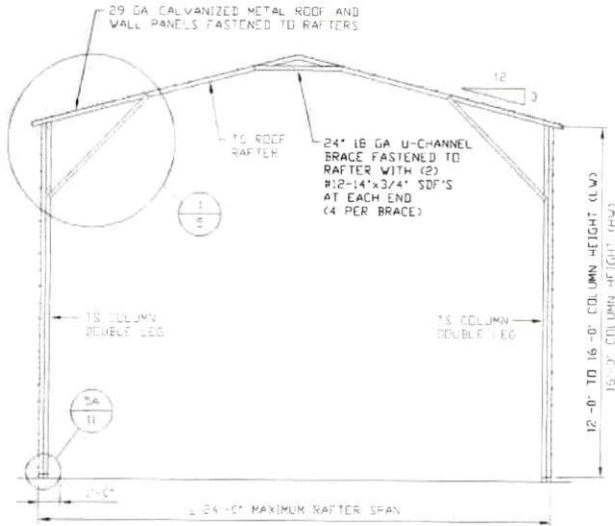
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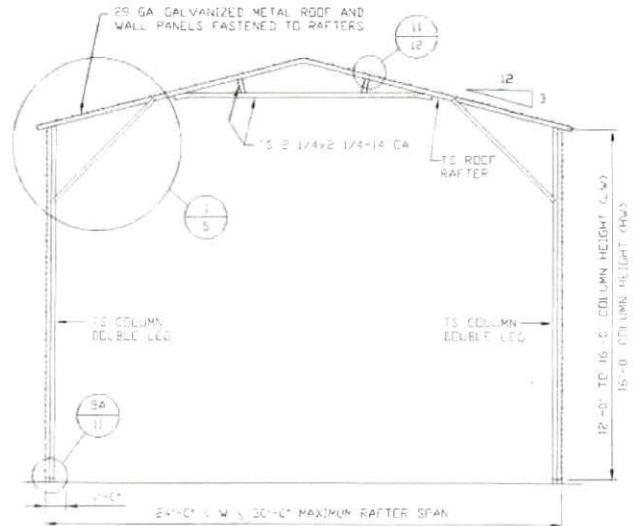
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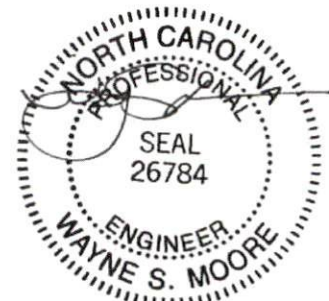
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



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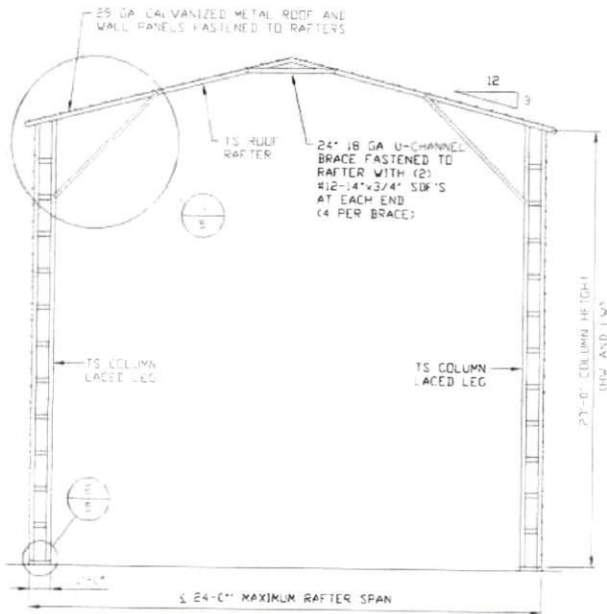
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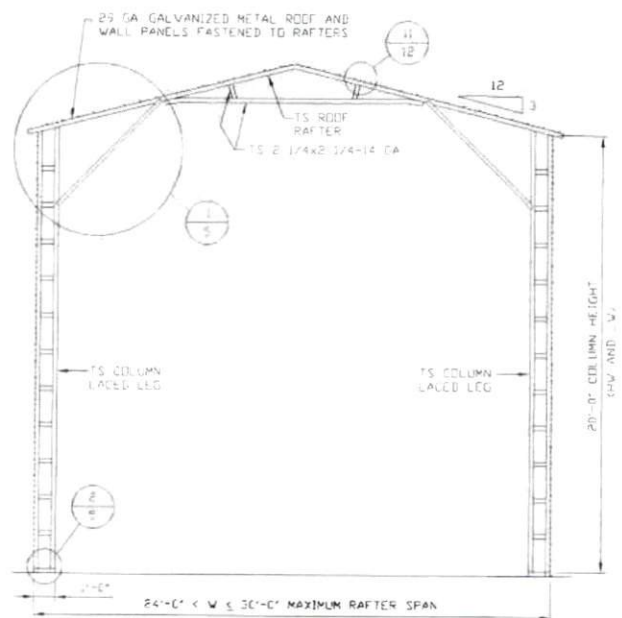
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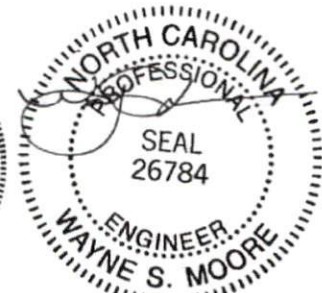
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



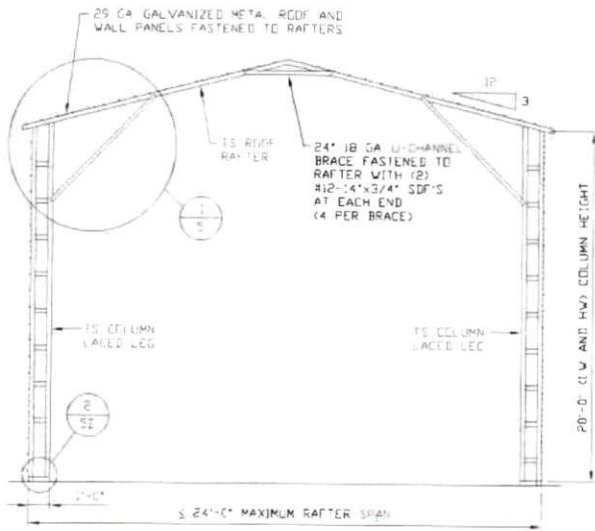
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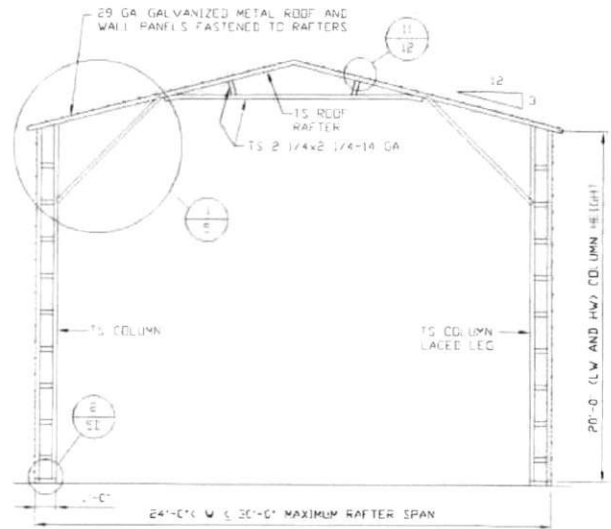
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CLIENT: CAROLINA CARPORTS				

EXPOSURE C



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



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SHT. 4D

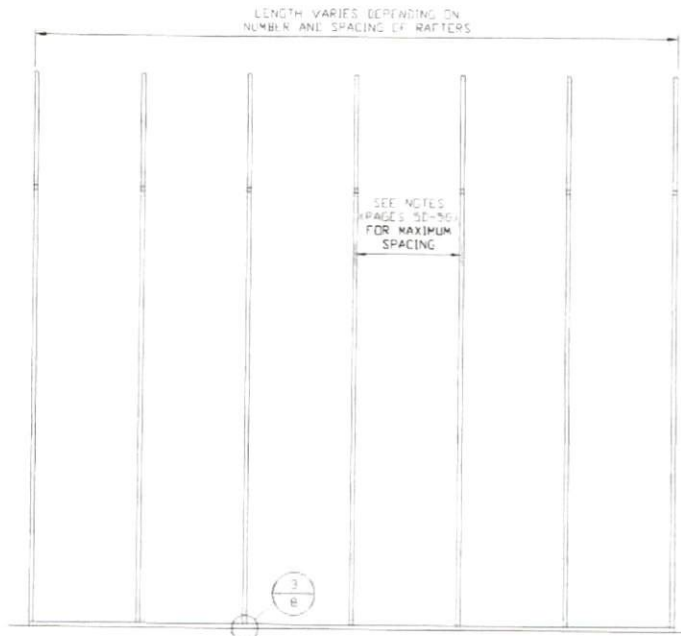
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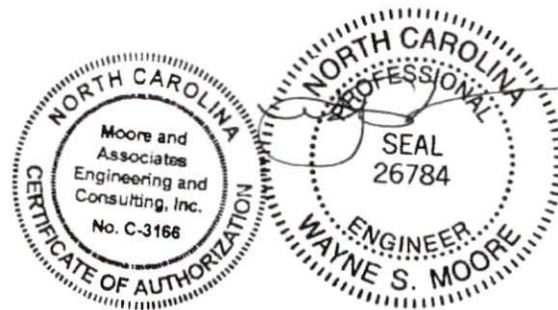
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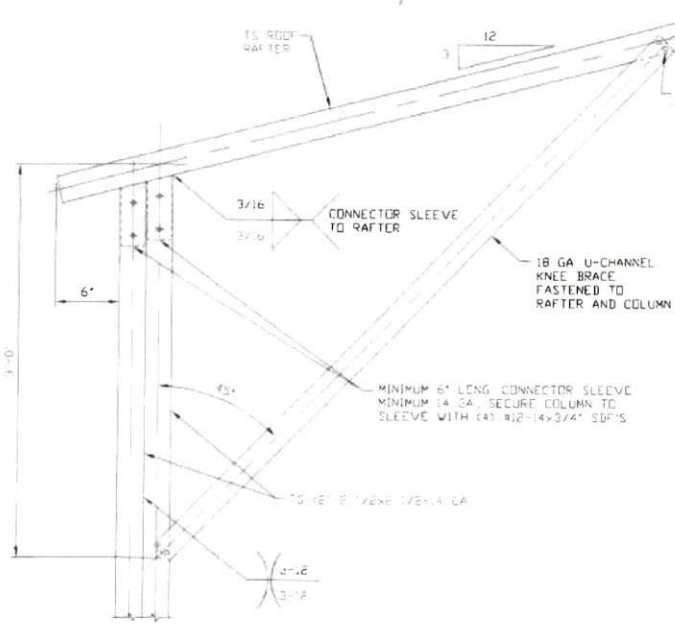
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



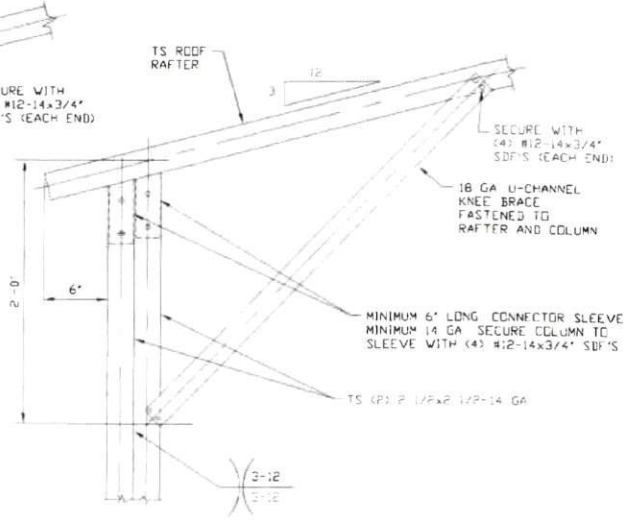
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	CLIENT: CAROLINA CARPORTS	SHT. 4E	DWG. NO: SK-3	REV: 7

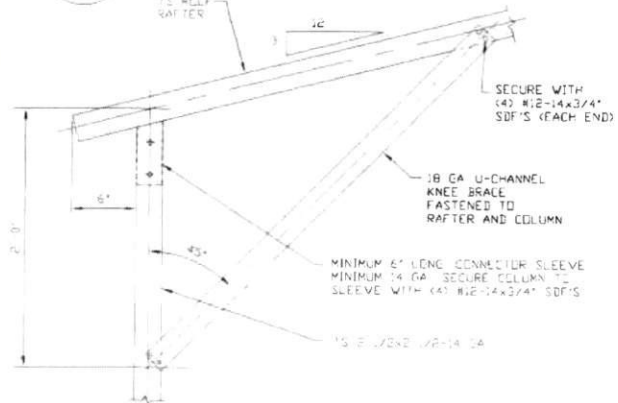
EXPOSURE B (140 MPH)



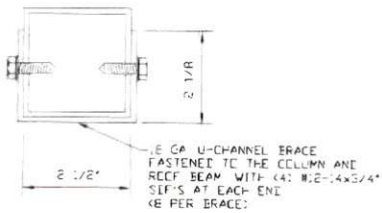
1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
 SCALE NTS



1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 12'-0"
 SCALE NTS



1C
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0"
 SCALE NTS



BRACE SECTION
 SCALE NTS



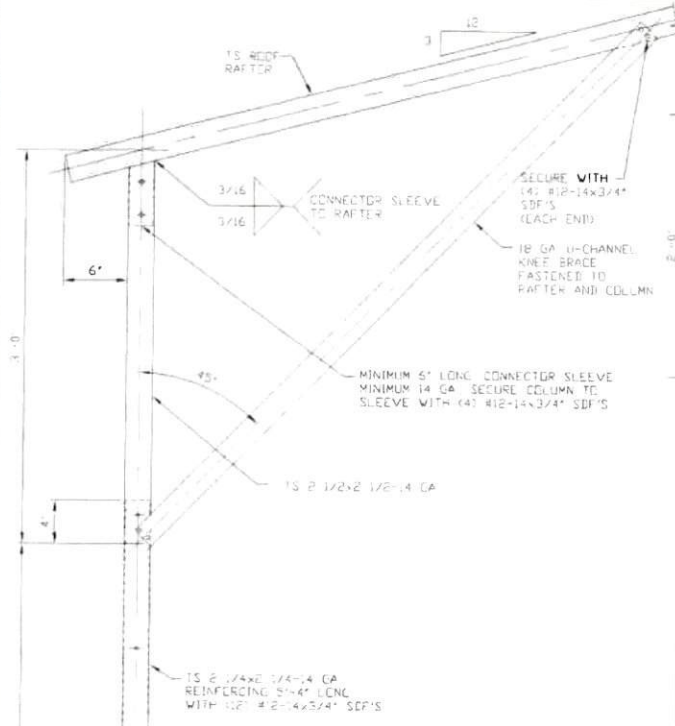
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

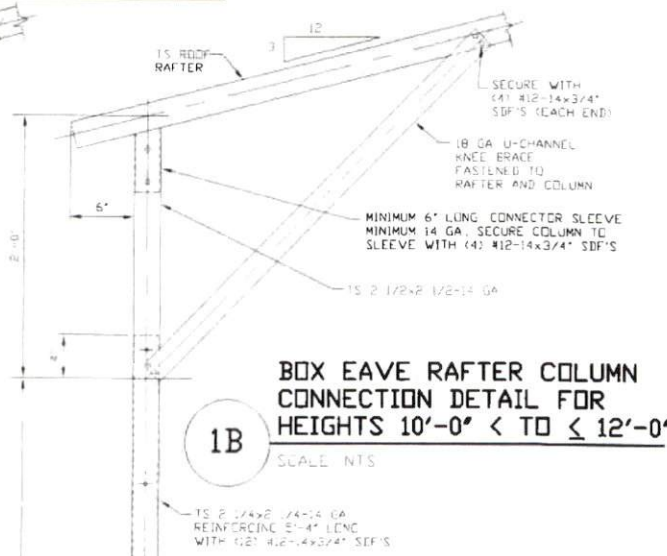
DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
CHECKED BY: PDH	DATE: 1-15-18	SCALE: NTS	JOB NO: 15156S 16135S 17324S
PROJECT MGR: WSM	SHT. 5	DWG. NO: SK-3	REV. 7
CLIENT: CAROLINA CARPORTS			

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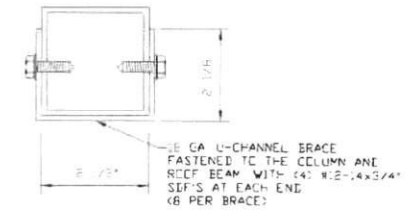
EXPOSURE B (170 MPH)



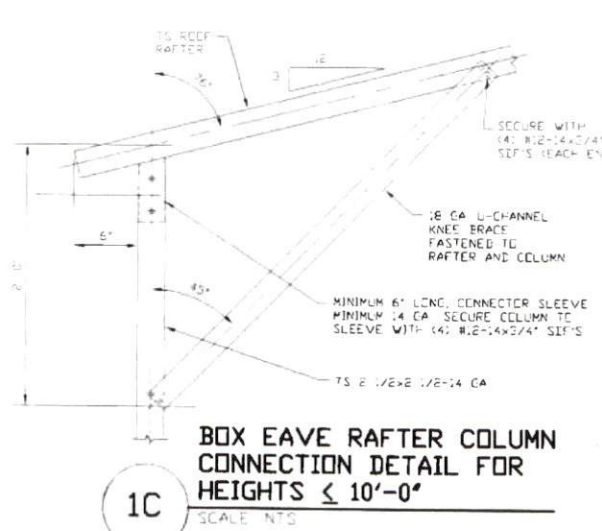
1A
SCALE NTS
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 14'-0"



1B
SCALE NTS
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"



BRACE SECTION
SCALE NTS



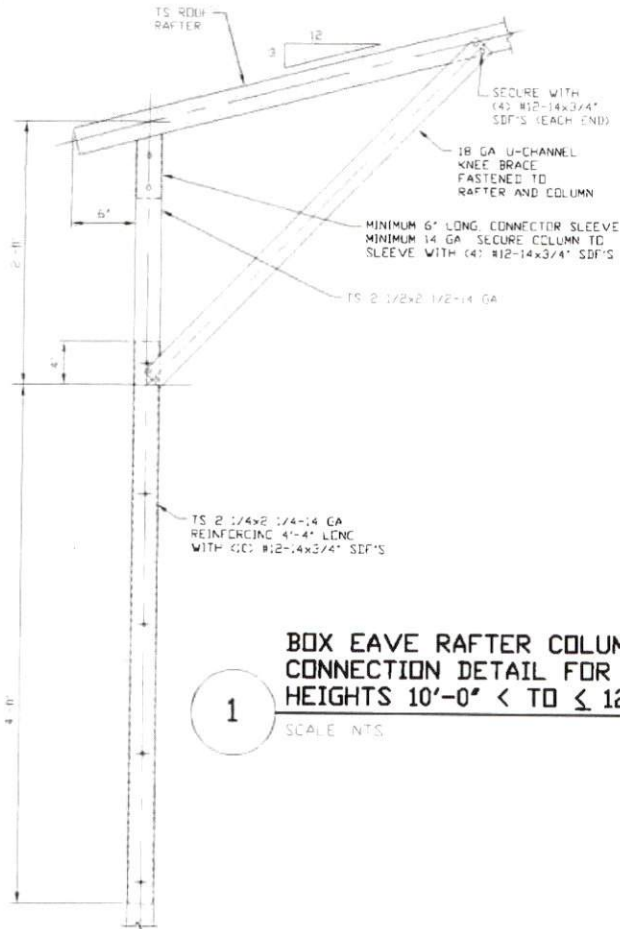
1C
SCALE NTS
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 10'-0"



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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
	CHECKED BY: PDH	PROJECT MGR: VSM	DATE: 1-15-18	SCALE: NTS
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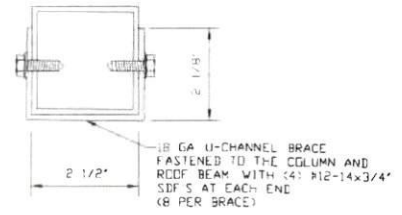
EXPOSURE C (140 MPH)



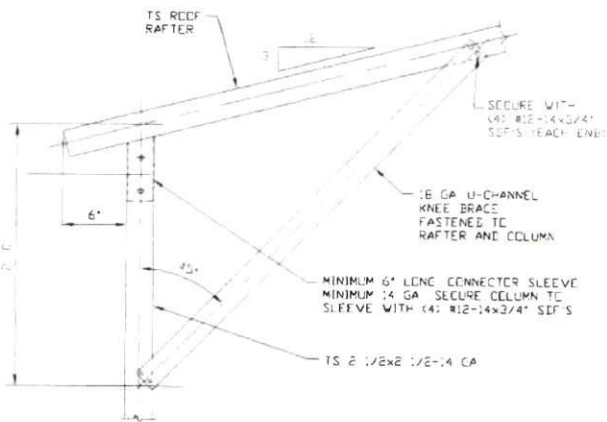
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"

1

SCALE: NTS



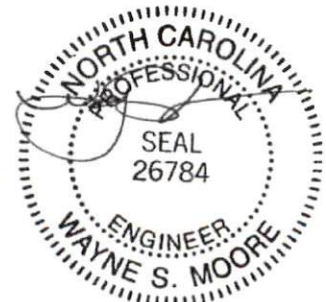
BRACE SECTION
SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

1B

SCALE: NTS



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CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

JOB NO: 15156S 1613SS
17324S

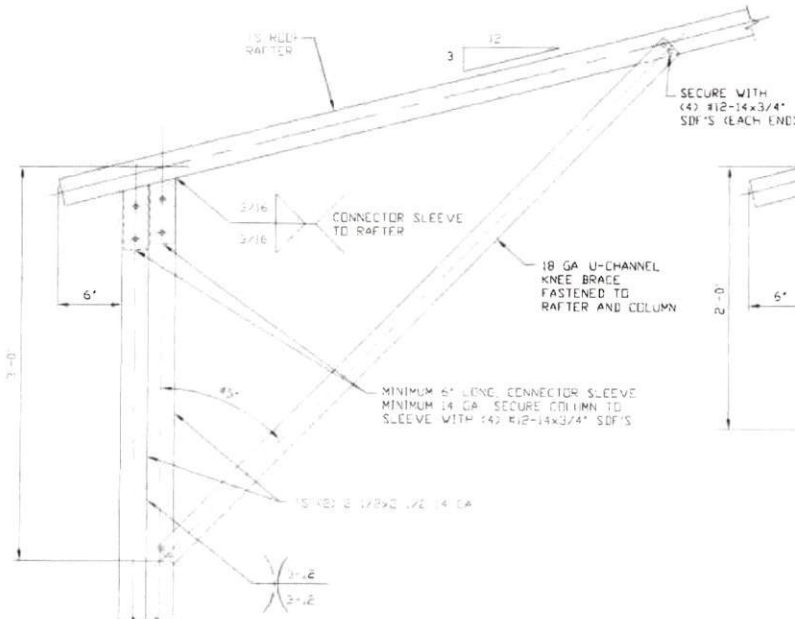
SHT. 5B

DWG. NO: SK-3

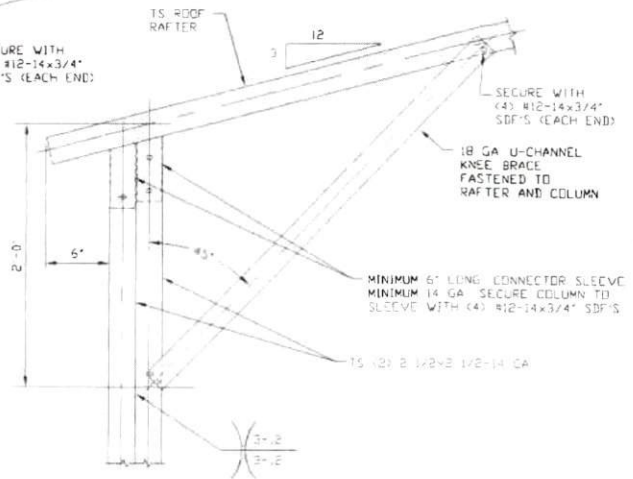
REV: 7

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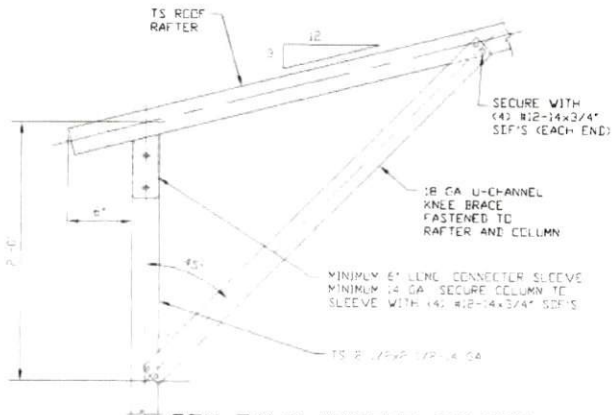
EXPOSURE C (170 MPH)



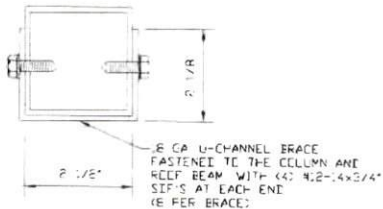
1A
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 12'-0" < TO ≤ 14'-0"
SCALE: NTS



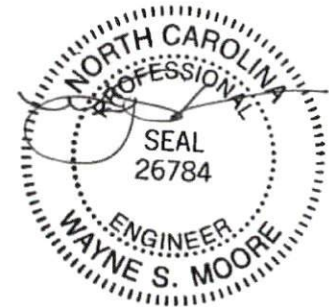
1B
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 8'-0" < TO ≤ 12'-0"
SCALE: NTS



1C
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS ≤ 8'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS



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PROJECT MGR: VSH

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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 5C

SCALE: NTS

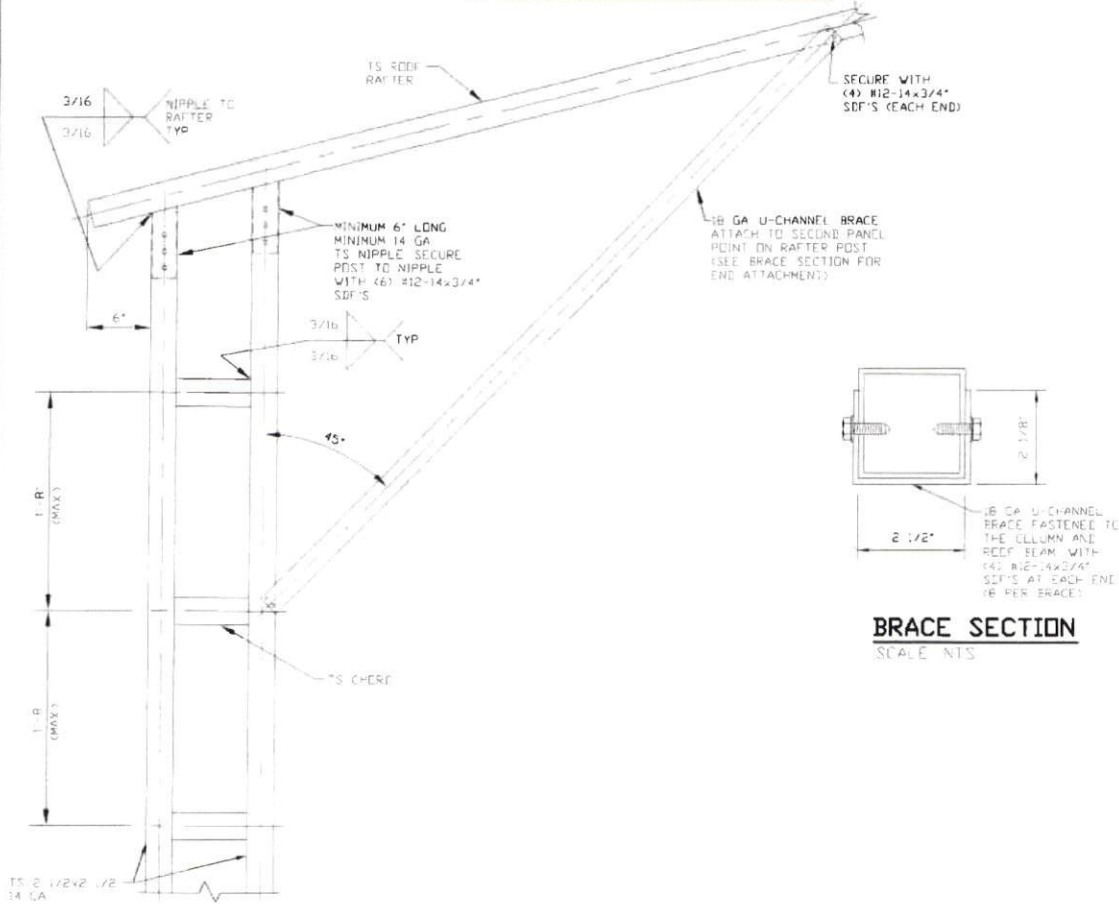
DWG. NO: SK-3

JOB NO: 15156S 16135S
17324S

REV: 7

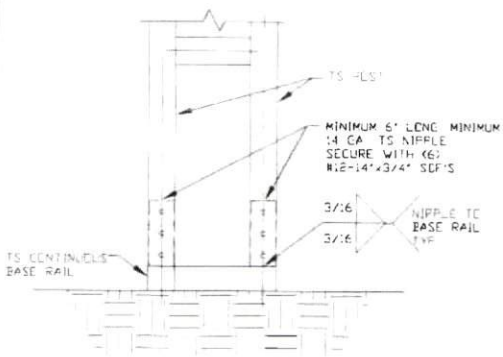
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EXPOSURE B (140 MPH)



**1 BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHT 20'-0"**

SCALE: NTS



2 POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: CAROLINA
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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

JOB NO: 15156S 16135S
17324S

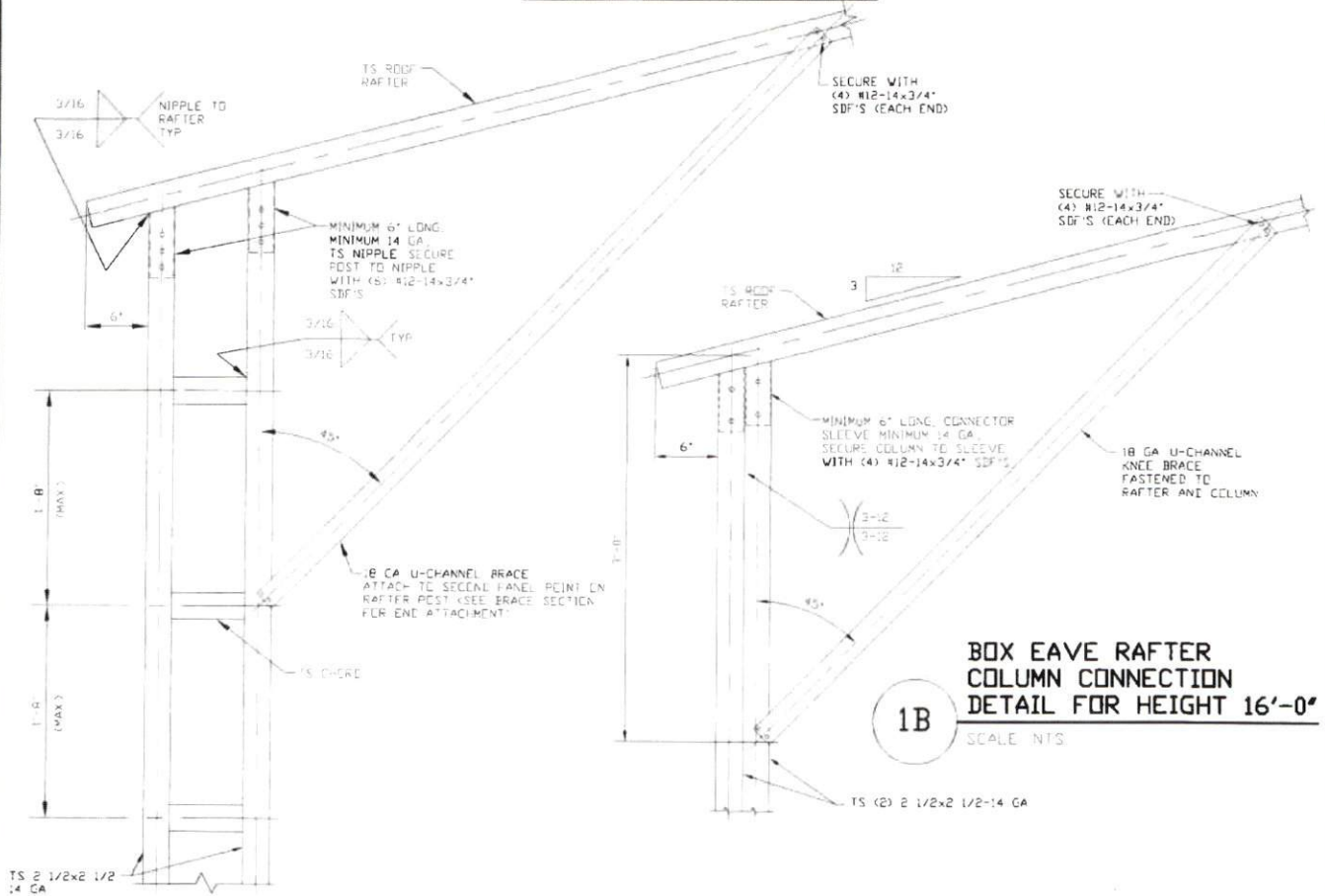
SHT. 5D

DWG. NO: SK-3

REV: 7

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EXPOSURE B (170 MPH)



**BOX EAVE RAFTER
COLUMN CONNECTION
DETAIL FOR HEIGHT 16'-0"**

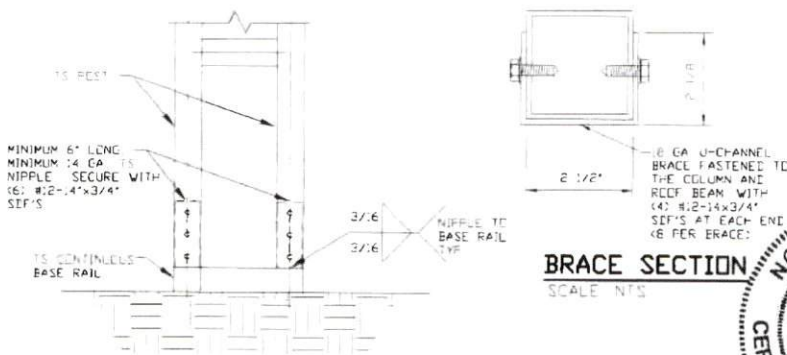
1B

SCALE: NTS

**BOX EAVE RAFTER
COLUMN CONNECTION
DETAIL FOR
HEIGHT 20'-0"**

1A

SCALE: NTS



BRACE SECTION

SCALE: NTS



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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

DWG. NO: SK-3

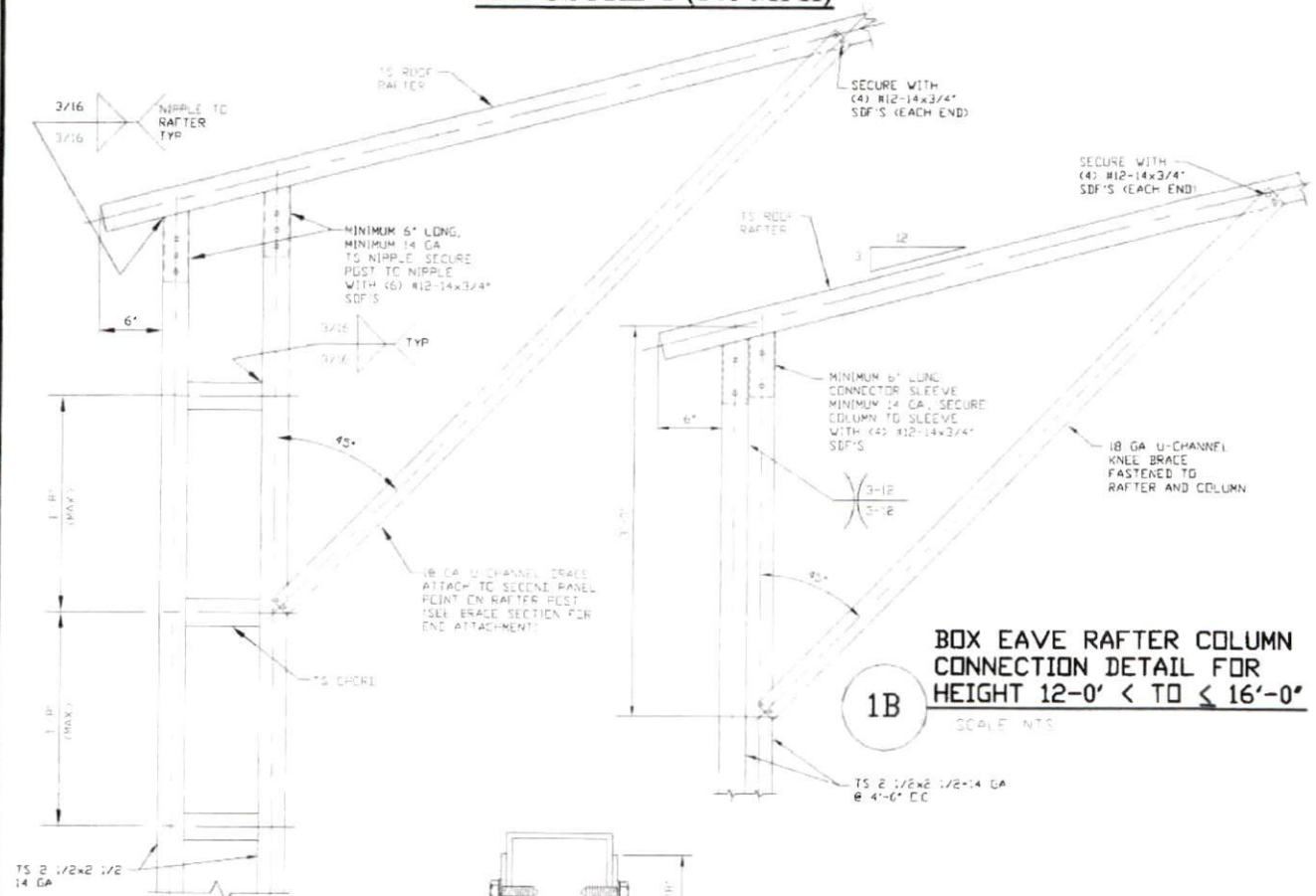
JOB NO: 15156S 16135S
17324S

SHT. 5E

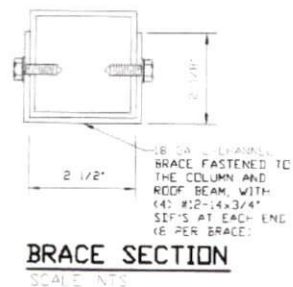
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EXPOSURE C (140 MPH)

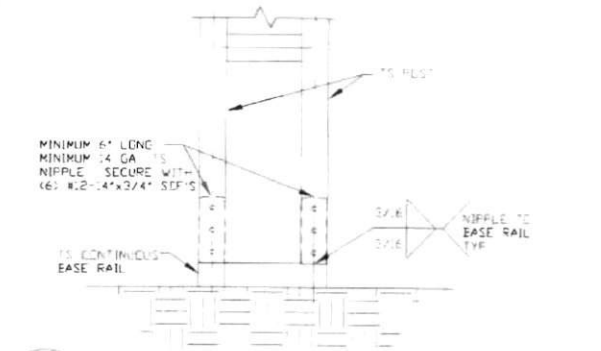


1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHT 20'-0"
SCALE: NTS

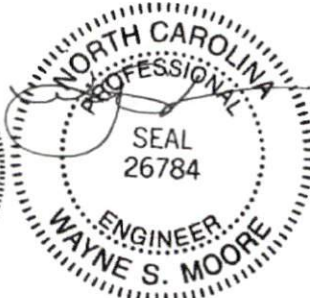


1B
BRACE SECTION
SCALE: NTS

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



2
POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 5F

SCALE: NTS

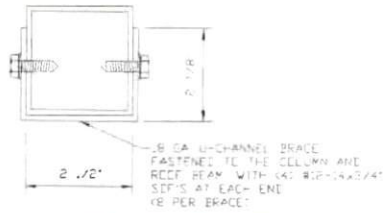
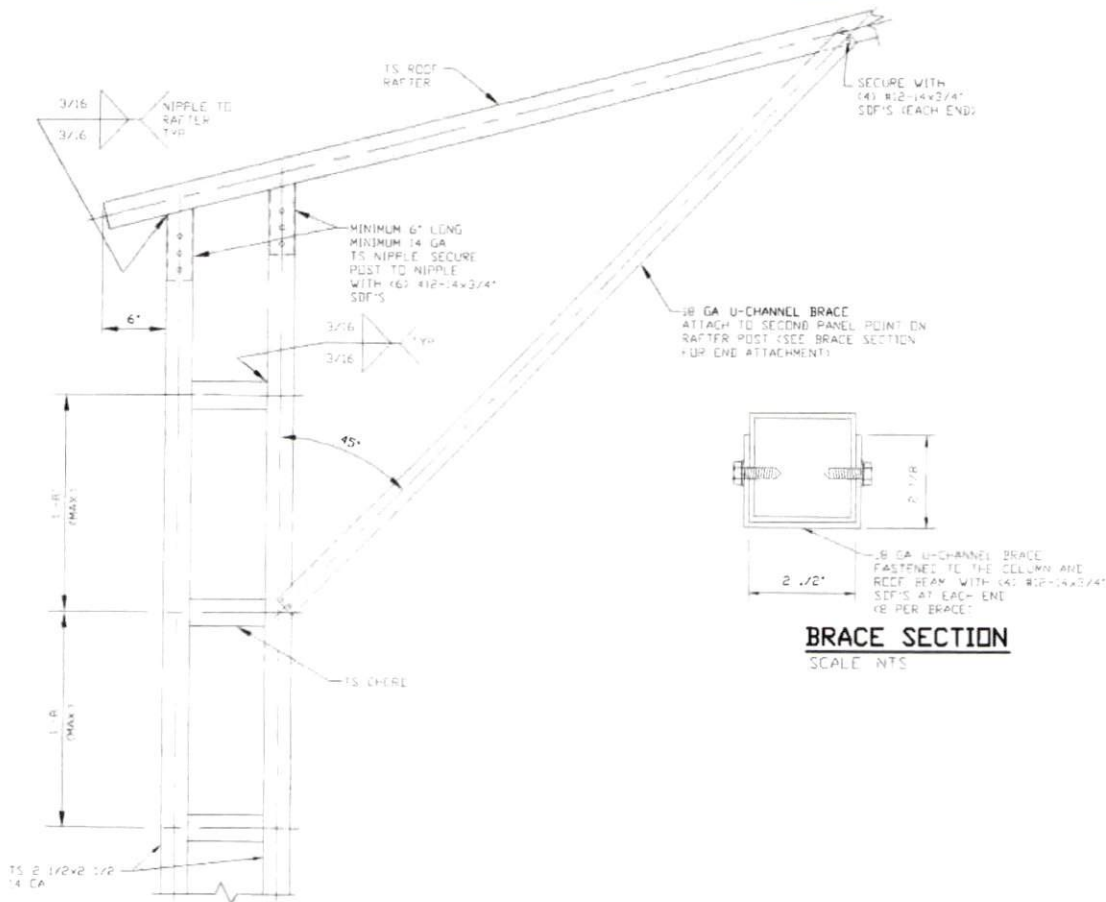
DWG. NO. SK-3

JOB NO: 15156S 1613SS 17324S

REV: 7

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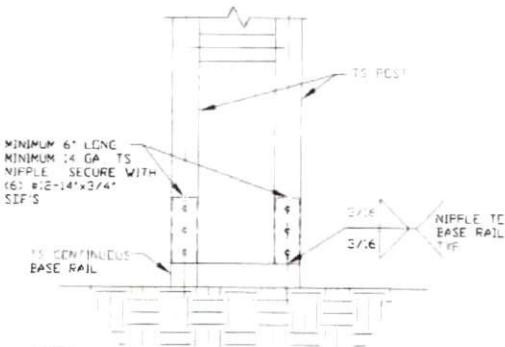
EXPOSURE C (170 MPH)



BRACE SECTION
SCALE: NTS

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

SCALE: NTS



2 POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS



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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

JOB NO: 15156S 16135S
17324S

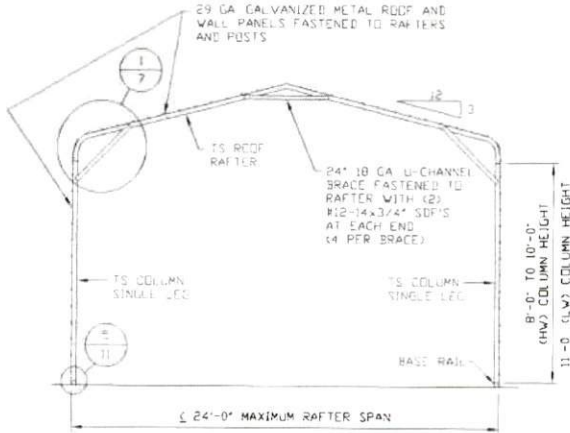
SHT. 5G

DWG. NO: SK-3

REV: 7

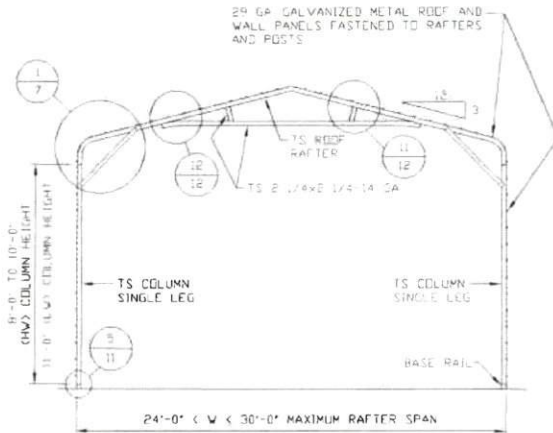
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EXPOSURE B



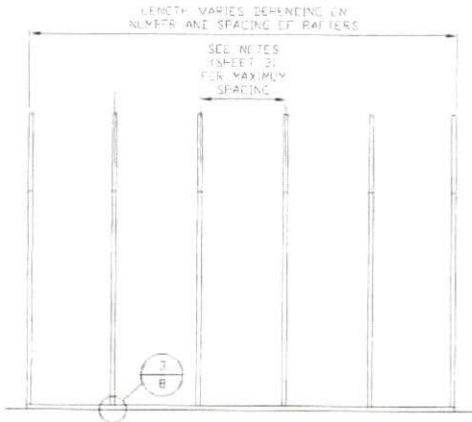
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



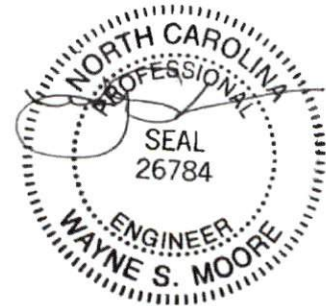
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS



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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 6

SCALE: NTS

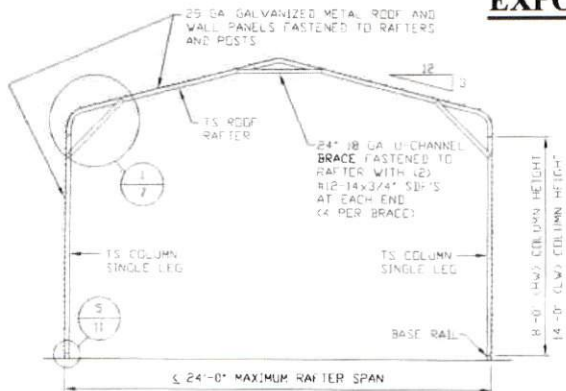
DWG. NO: SK-3

JOB NO: 15156S 16135S
17324S

REV: 7

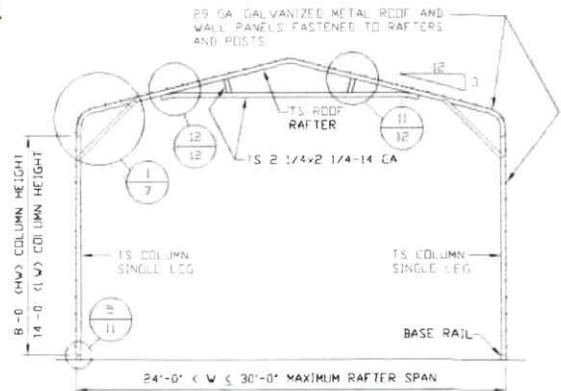
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EXPOSURE C



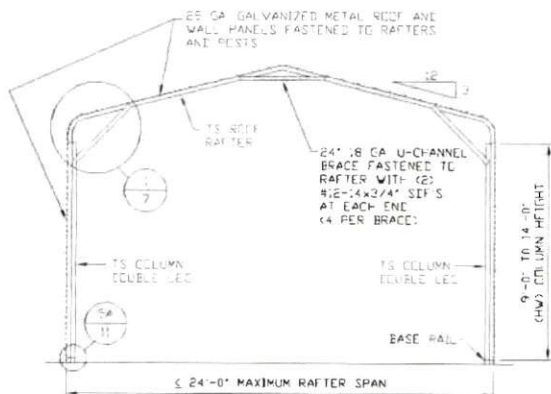
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



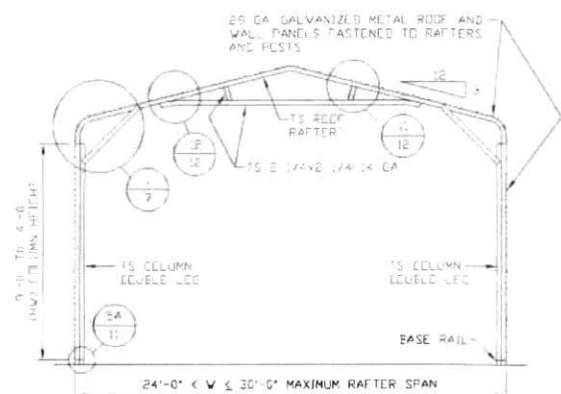
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



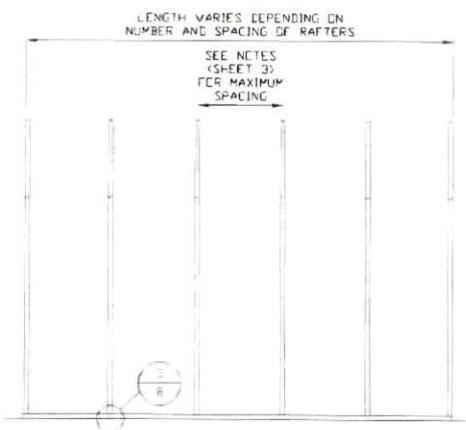
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS



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PROJECT MGR: WSM

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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 6A

SCALE: NTS

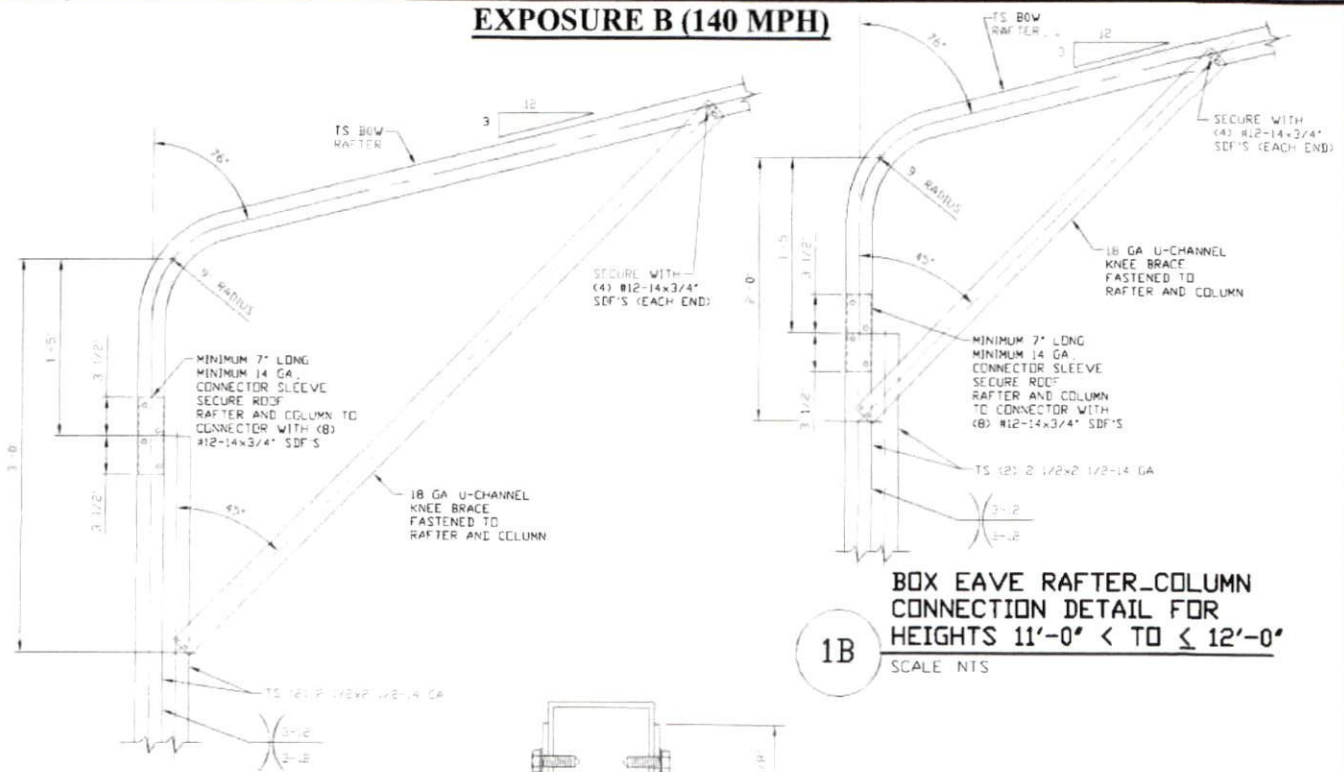
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JOB NO: 15156S 1613SS
17324S

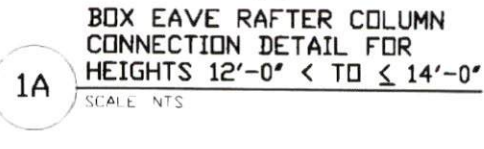
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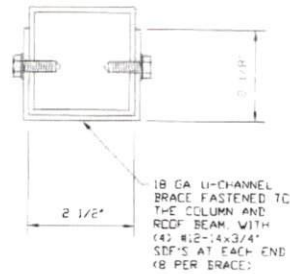
EXPOSURE B (140 MPH)



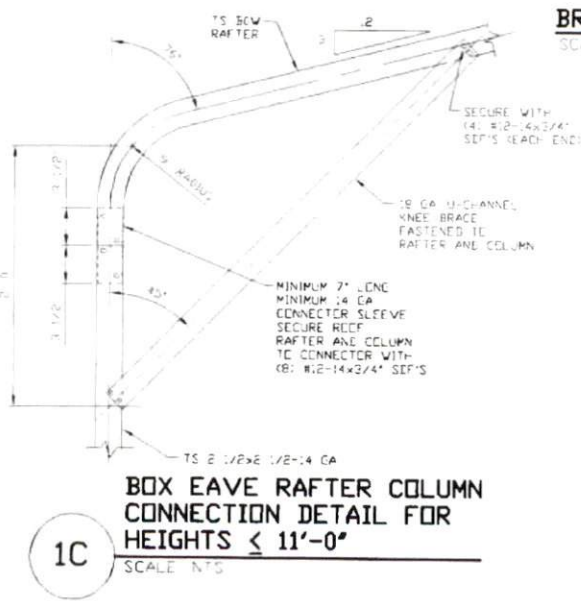
BOX EAVE RAFTER-COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 12'-0"
SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 14'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 11'-0"
SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 7

SCALE: NTS

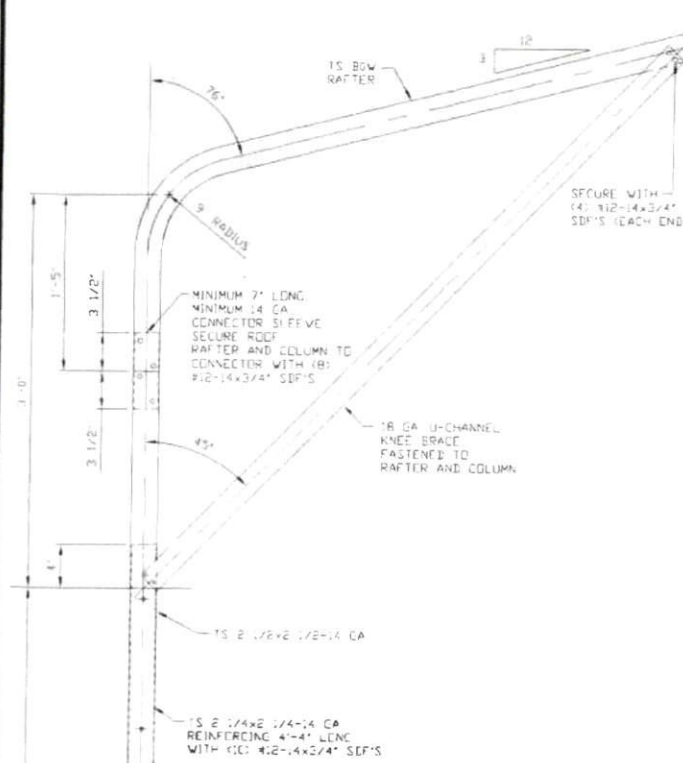
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JOB NO: 15156S 1613SS 17324S

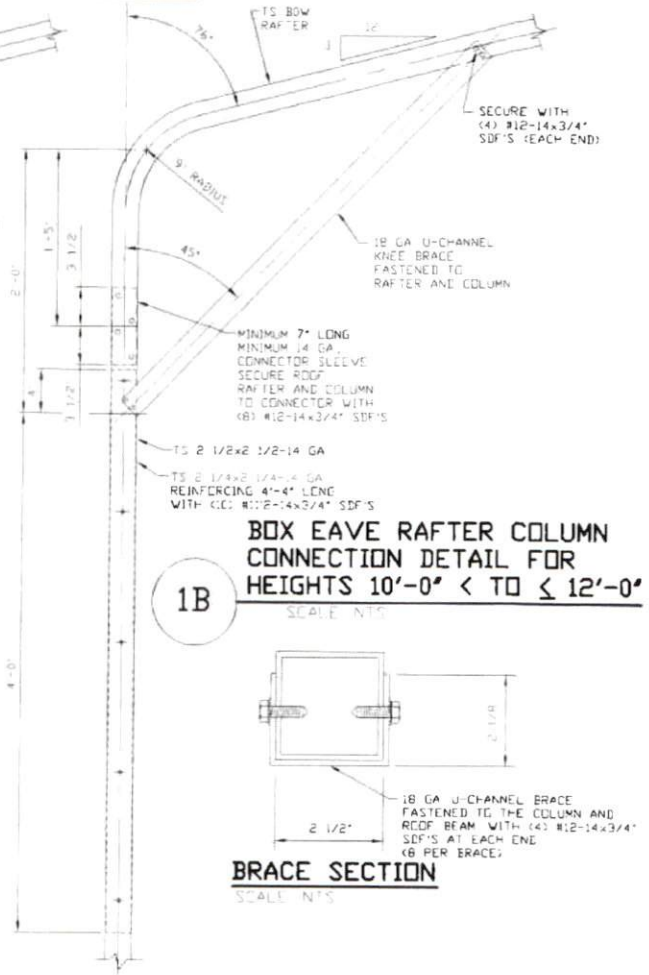
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EXPOSURE B (170 MPH)

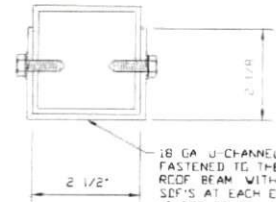


1A
SCALE: NTS

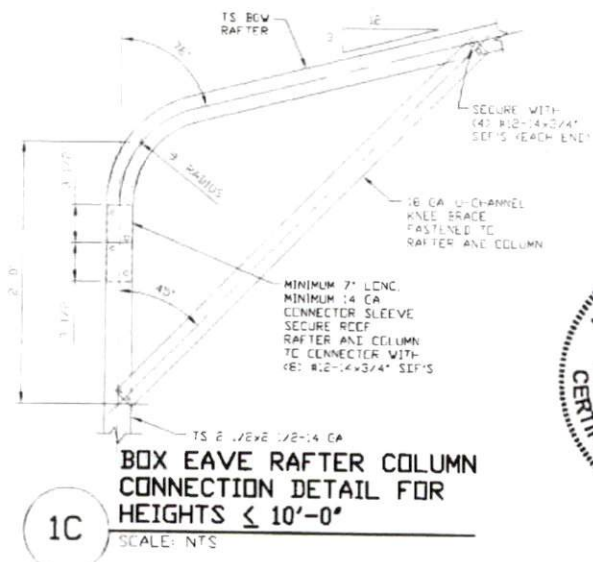


1B
SCALE: NTS

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



BRACE SECTION
SCALE: NTS



1C
SCALE: NTS

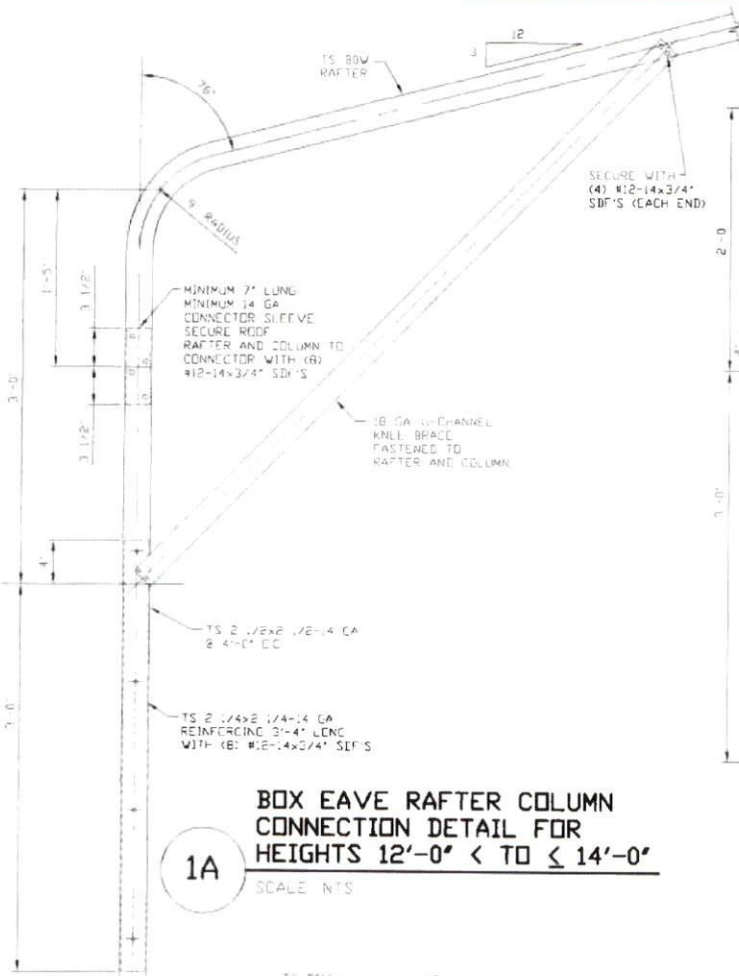
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 10'-0"



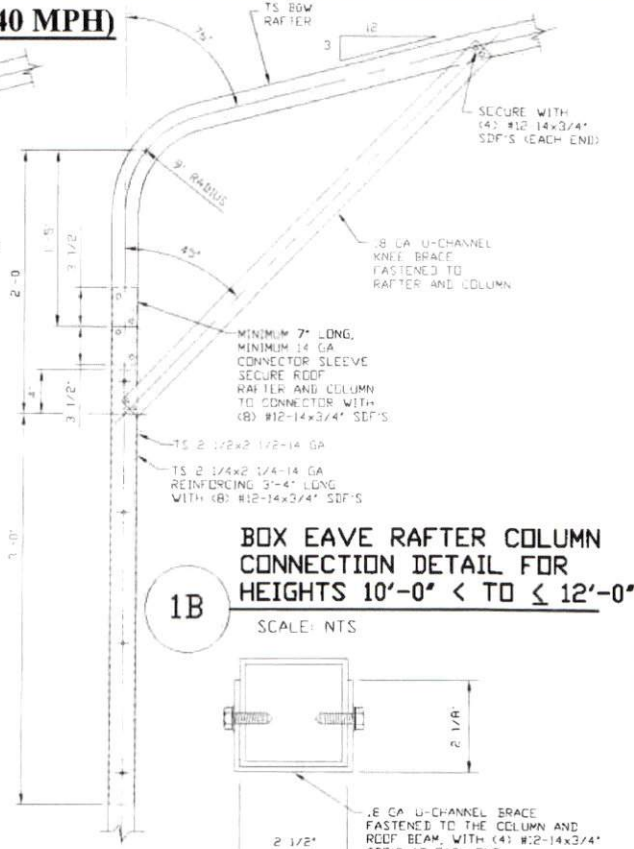
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
	CHECKED BY: PDH	DATE: 1-15-18	SCALE: NTS	JOB NO: 15156S 16135S 17324S
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	CLIENT: CAROLINA CARPORTS			

EXPOSURE C (140 MPH)

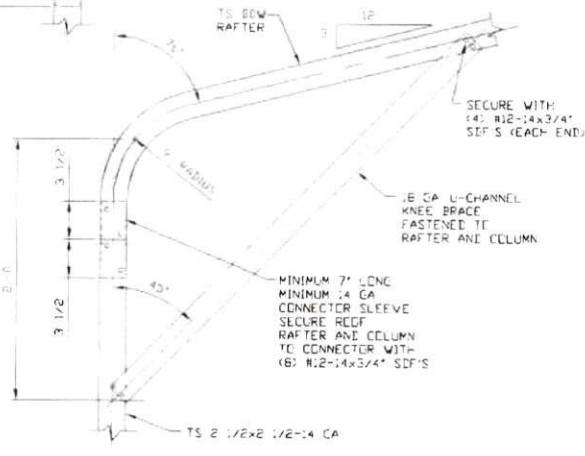


1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 14'-0"
 SCALE: NTS



1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"
 SCALE: NTS

BRACE SECTION
 SCALE: NTS



1C
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"
 SCALE: NTS



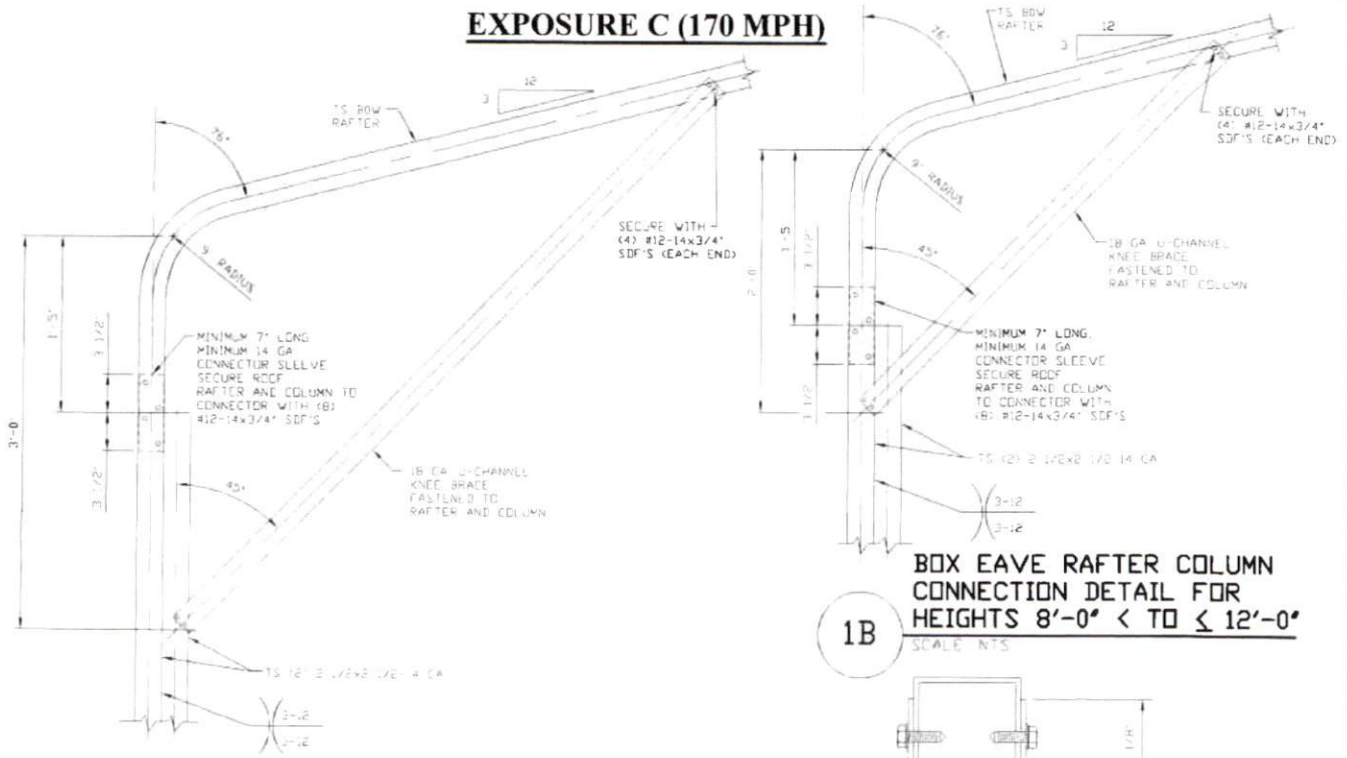
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

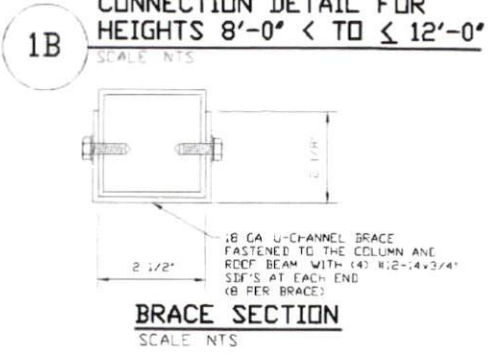
DRAWN BY: JRS		CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE	
CHECKED BY: PDH		DATE: 1-15-18	SCALE: NTS
PROJECT MGR: WSM	CLIENT: CAROLINA CARPORTS	SHT. 7B	JOB NO: 15156S 16135S 17324S DWG. NO: SK-3 REV: 7

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EXPOSURE C (170 MPH)

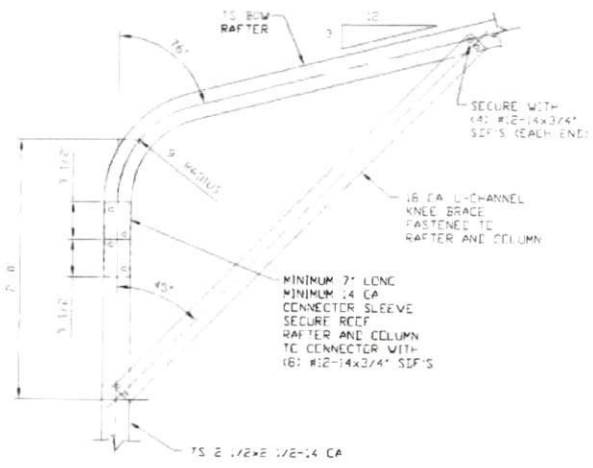


1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 14'-0"
 SCALE: NTS

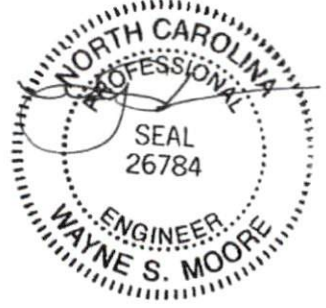


1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 12'-0"
 SCALE: NTS

BRACE SECTION
 SCALE: NTS



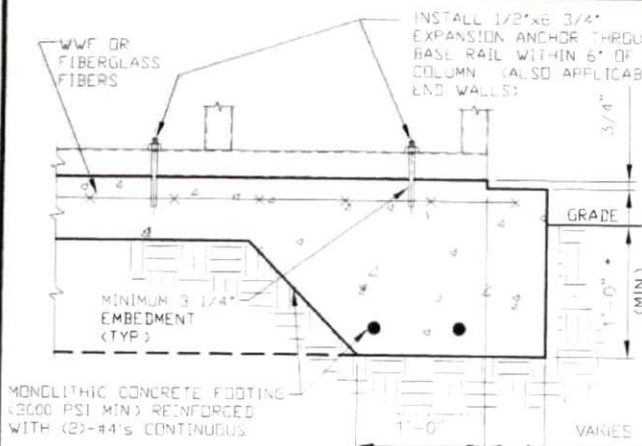
1C
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0"
 SCALE: NTS



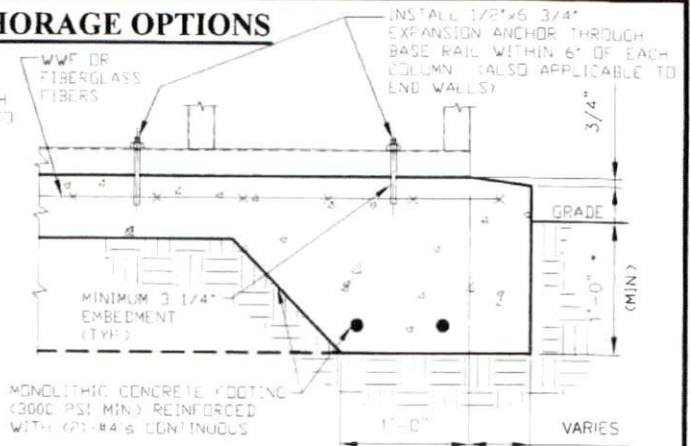
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
	CHECKED BY: PDH	PROJECT MGR: WSM	DATE: 1-15-18	SCALE: NTS
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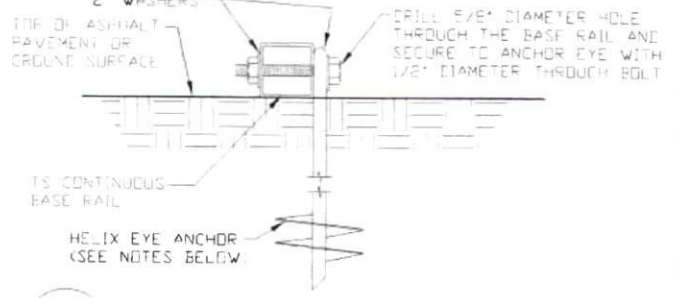
BASE RAIL ANCHORAGE OPTIONS



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



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



3C GROUND BASE HELIX ANCHORAGE
SCALE: NTS (CAN BE USED FOR ASPHALT)

GENERAL NOTES

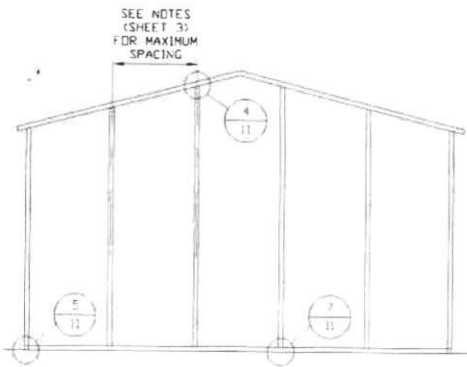
- CONCRETE:**
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
- COVER OVER REINFORCING STEEL:**
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318.
2" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH 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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



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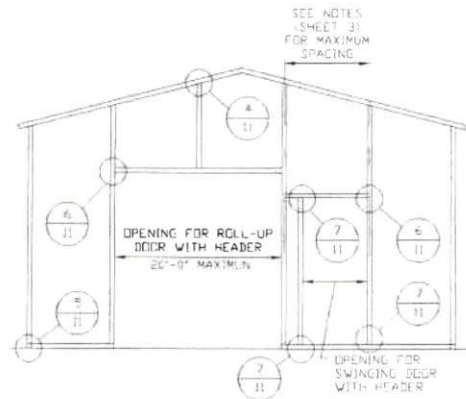
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
	CHECKED BY: PDH	DATE: 1-15-18	SCALE: NTS	JOB NO: 15156S 16135S 17324S
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CLIENT: CAROLINA CARPORTS				

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



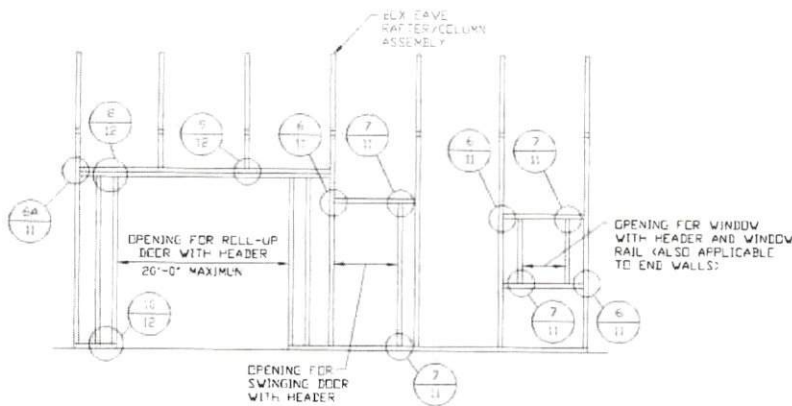
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

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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DRAWN BY: JRS

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PROJECT MGR: WSH

**CLIENT: CAROLINA
CARPORTS**

**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE**

DATE: 1-15-18

SHT. 9

SCALE: NTS

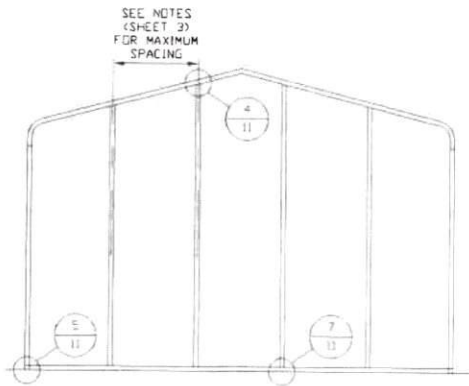
DWG. NO: SK-3

**JOB NO: 15156S 1613SS
17324S**

REV: 7

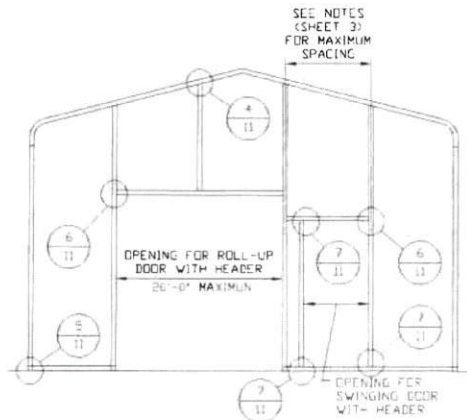
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



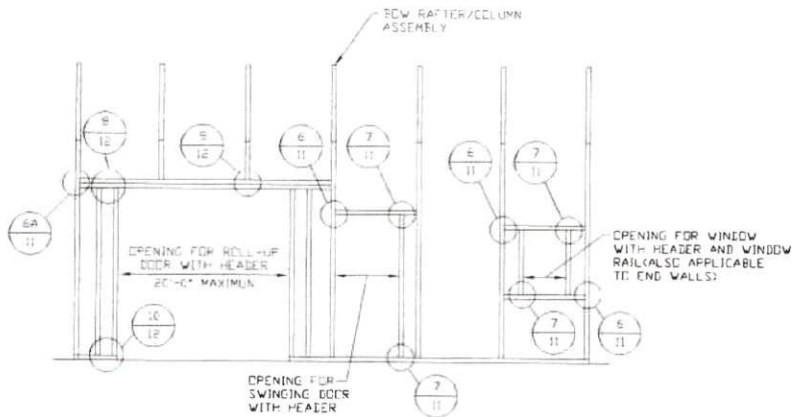
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



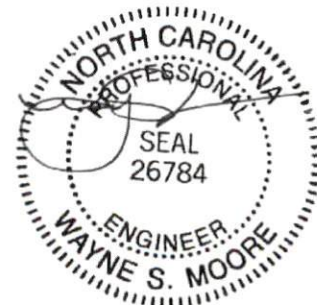
**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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PROJECT MGR: WSM

**CLIENT: CAROLINA
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**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE**

DATE: 1-15-18

SHT. 10

SCALE: NTS

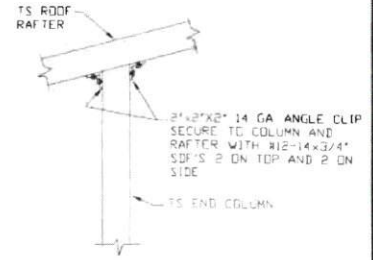
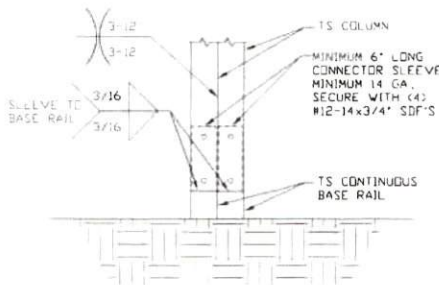
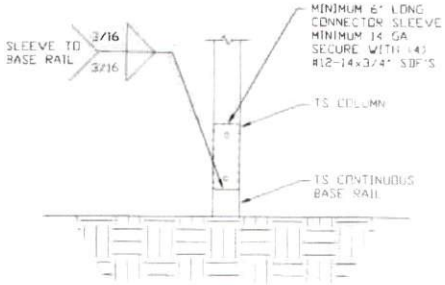
DWG. NO: SK-3

**JOB NO: 15156S 1613SS
17324S**

REV: 7

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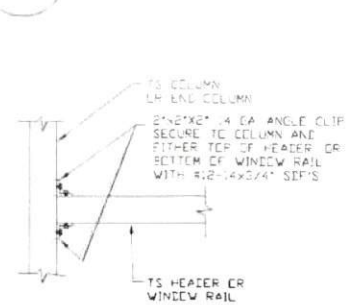
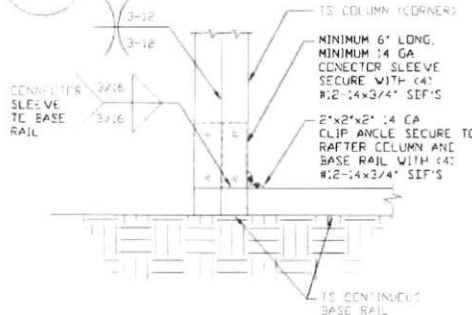
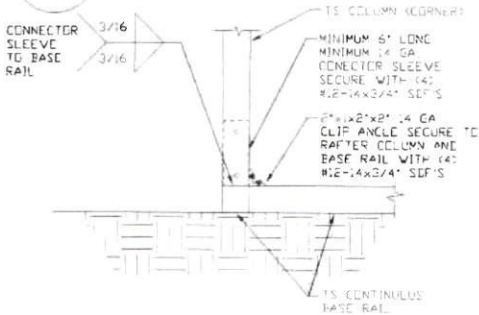
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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

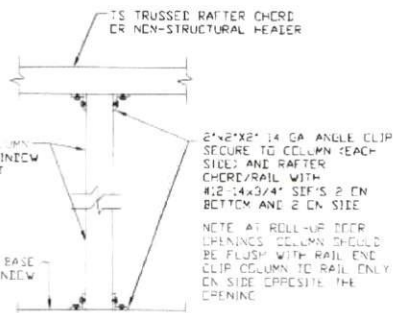
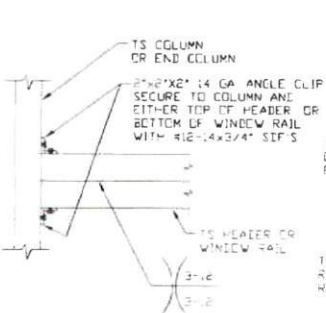
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

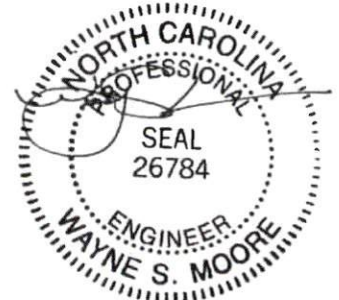
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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



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

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



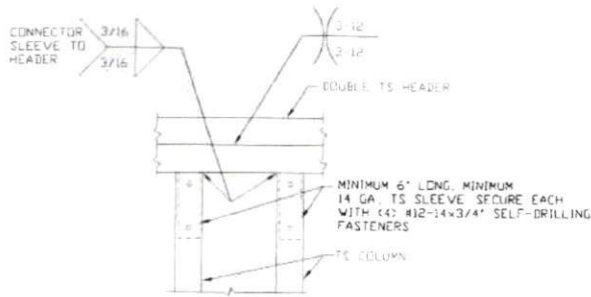
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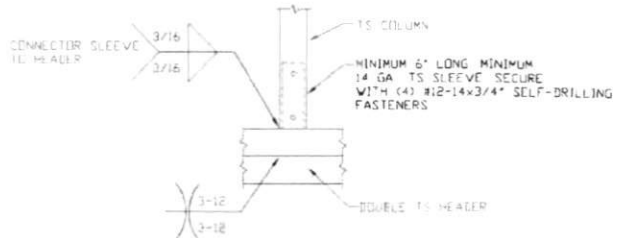
DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
CHECKED BY: PDH	DATE: 1-15-18	SCALE: NTS	JOB NO: 15156S 16135S 17324S
PROJECT MGR: VSM	SHT. 11	DWG. NO SK-3	REV: 7
CLIENT: CAROLINA CARPORTS			

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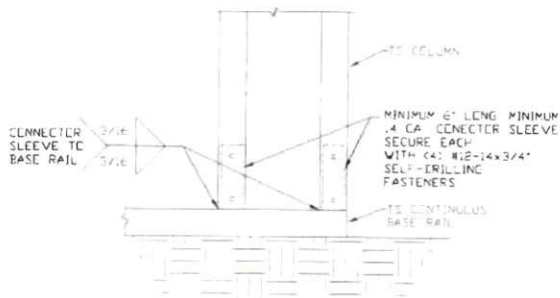
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



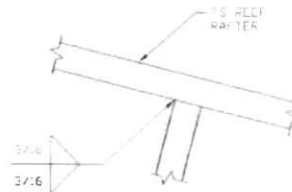
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



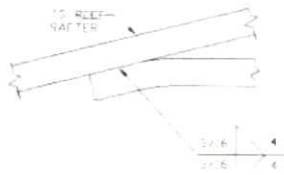
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



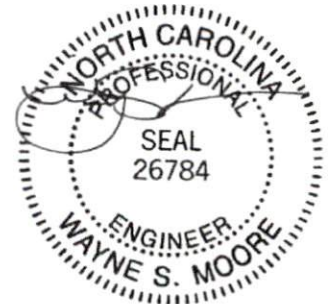
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



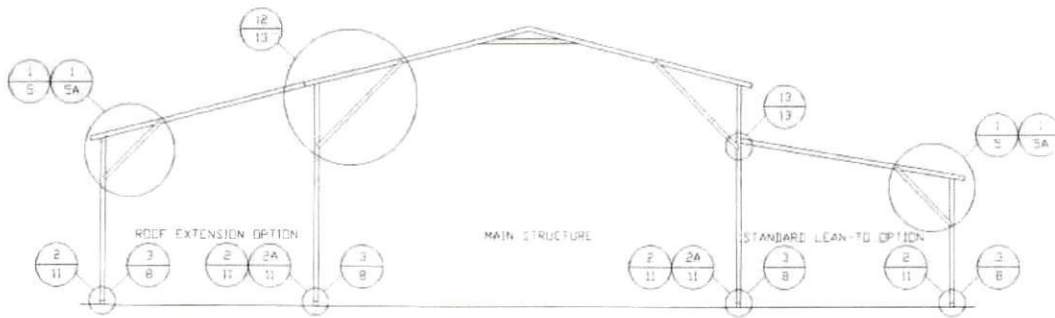
12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



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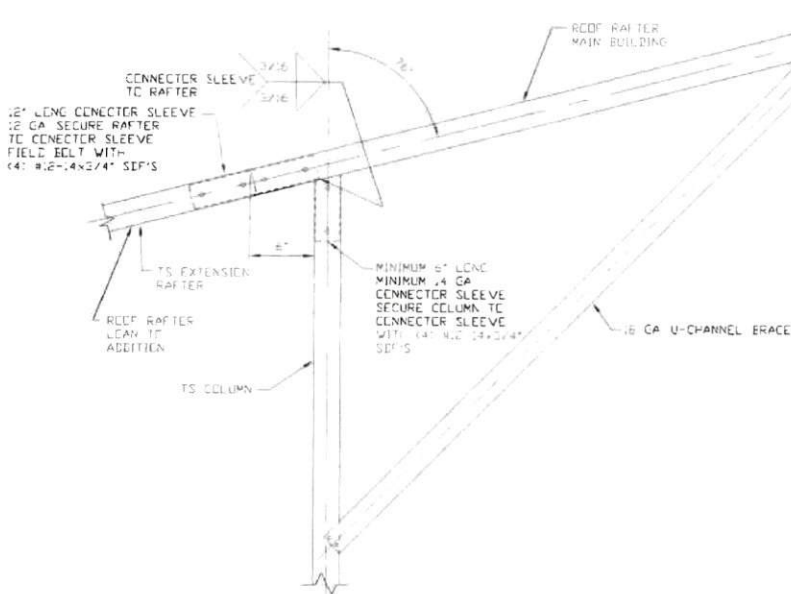
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	CLIENT: CAROLINA CARPORTS	SHT. 12	DWG. NO: SK-3	REV: 7

BOX EAVE RAFTER LEAN-TO OPTIONS



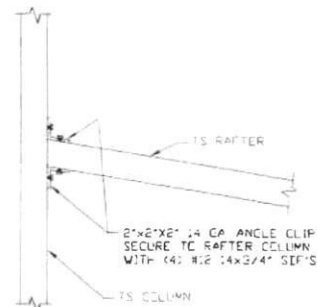
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS
 MINIMUM WIDTH OF STANDARD LEAN-TO/ROOF EXTENSION IS 12'-0"



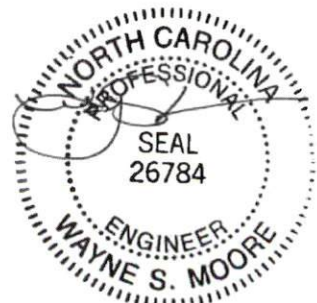
12 SIDE EXTENSION RAFTER/COLUMN DETAIL

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS



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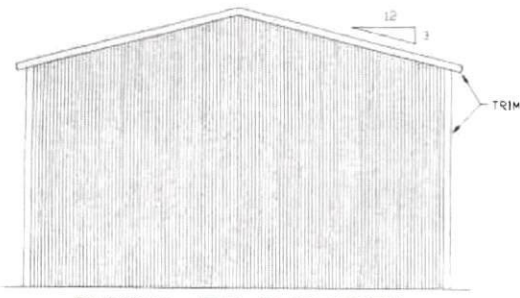
DRAWN BY: JRS
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CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 30'x20' ENCLOSED STRUCTURE

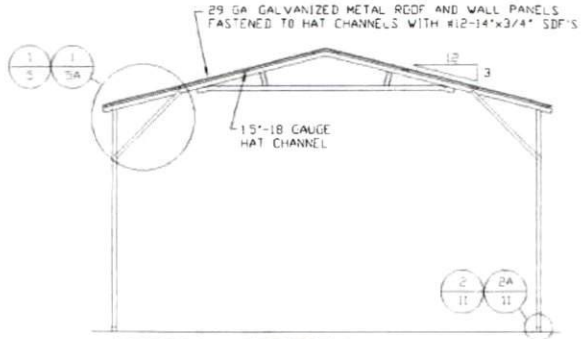
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CLIENT: CAROLINA CARPORTS	SHT. 13	DWG. NO: SK-3	REV.: 7

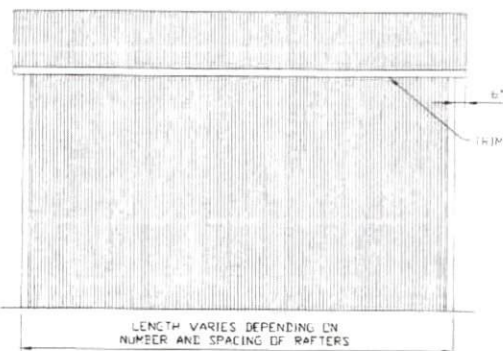
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



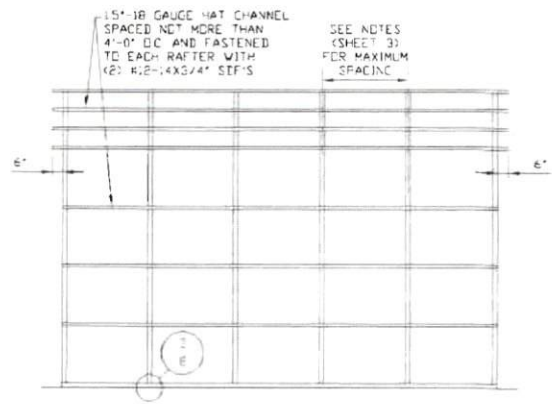
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



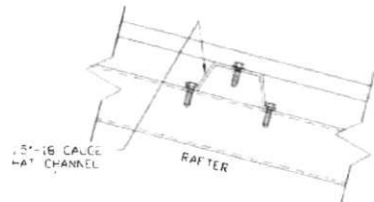
**TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION**
SCALE: NTS



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



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



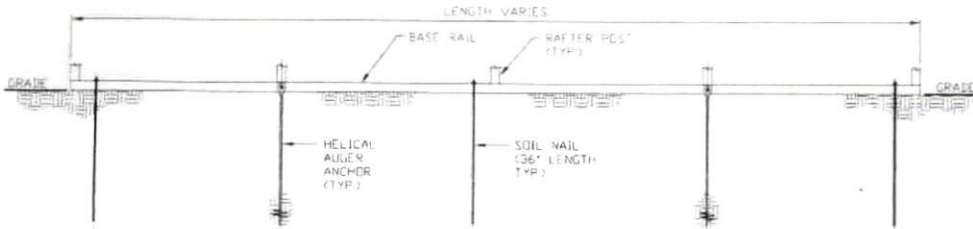
PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



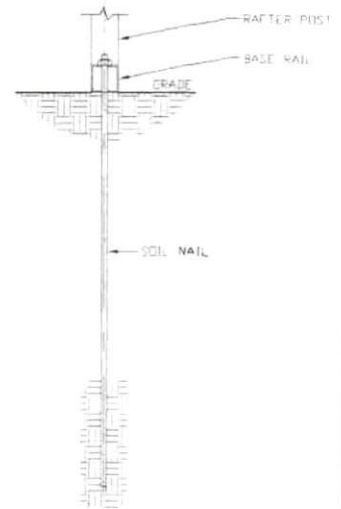
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	CLIENT: CAROLINA CARPORTS	SHT. 15	DWG. NO: SK-3	REV.: 7

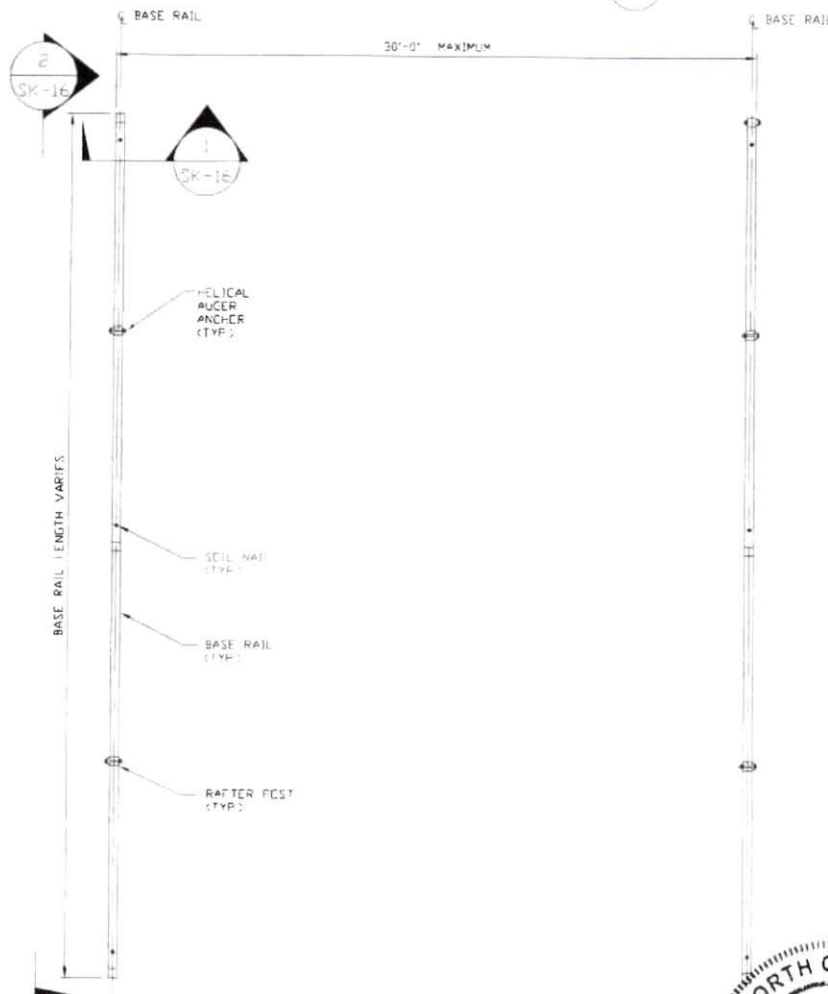
BASE RAIL ON GRADE APPLICATION



SECTION 2
SCALE: NTS
SK-16



SECTION 1
SCALE: NTS
SK-16



BASE RAIL PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
20'	20'
25'	25' NOTE 2
30'	10' (EVERY OTHER POST)

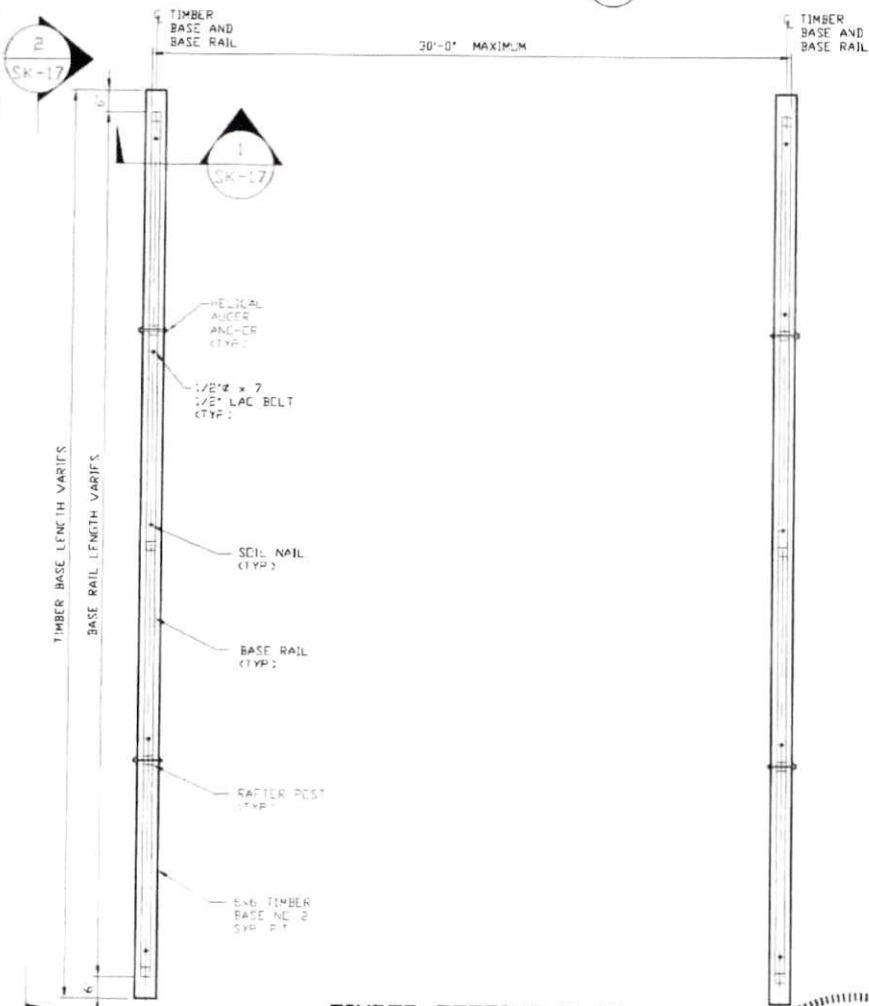
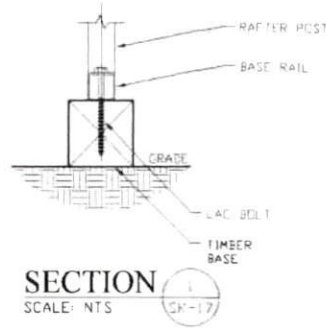
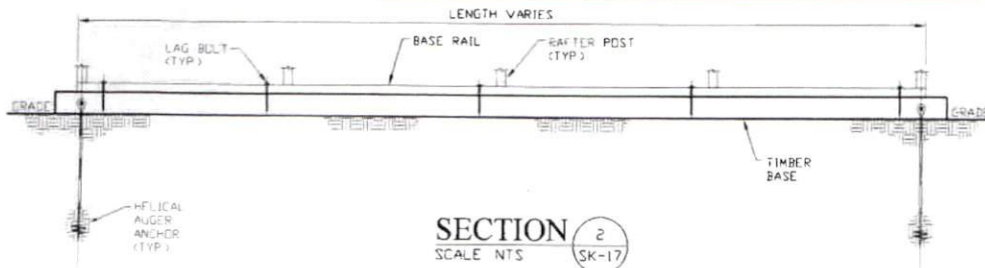
- NOTES**
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS.
 2. FOR EXPOSURE C USE 10' SPACING (EVERY OTHER POST).



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	CLIENT: CAROLINA CARPORTS	SHT. 16	DWG. NO: SK-3	REV: 7

OPTIONAL BASE RAIL ON TIMBER BEAM



TIMBER FOOTING PLAN
SCALE NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
20'	20'
25'	25' NOTE 2
30'	10' (EVERY OTHER POST)

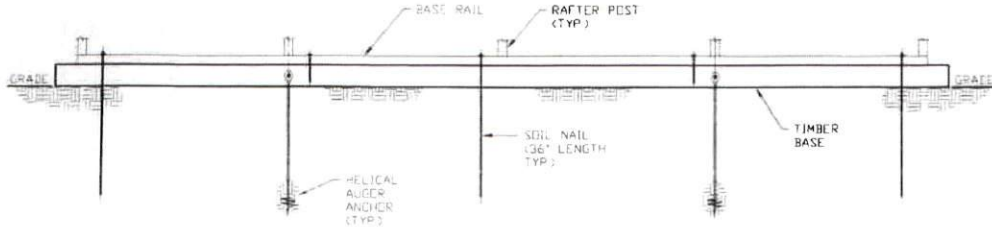
- NOTES
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 2. FOR EXPOSURE C USE 10' SPACING (EVERY OTHER POST)



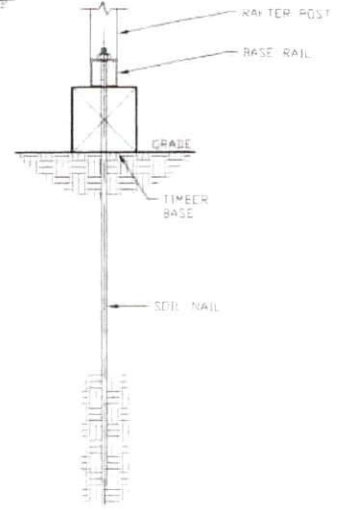
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JRS	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE		
	CHECKED BY: PDH	PROJECT MGR: VSM	DATE: 1-15-18	SCALE: NTS
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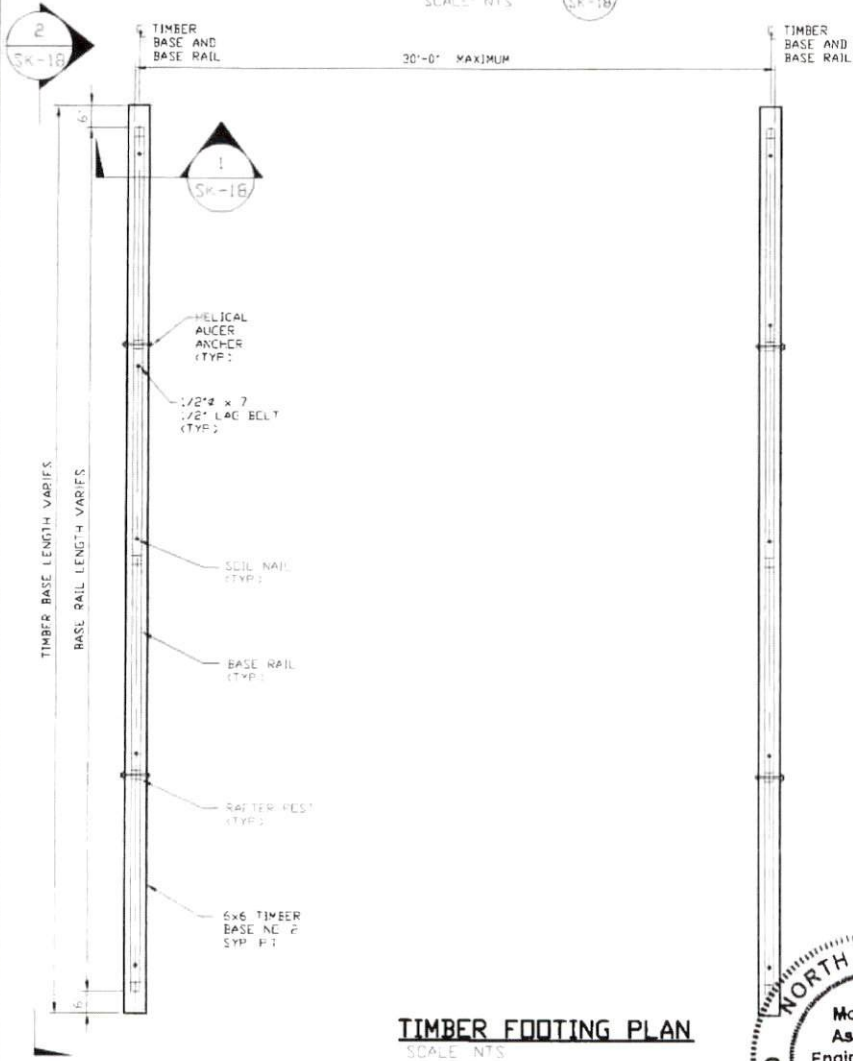
OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL



SECTION 2
SCALE: NTS (SK-18)



SECTION 1
SCALE: NTS (SK-18)



TIMBER FOOTING PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
20'	20'
25'	25' (NOTE 2)
30'	30' (EVERY OTHER POST)

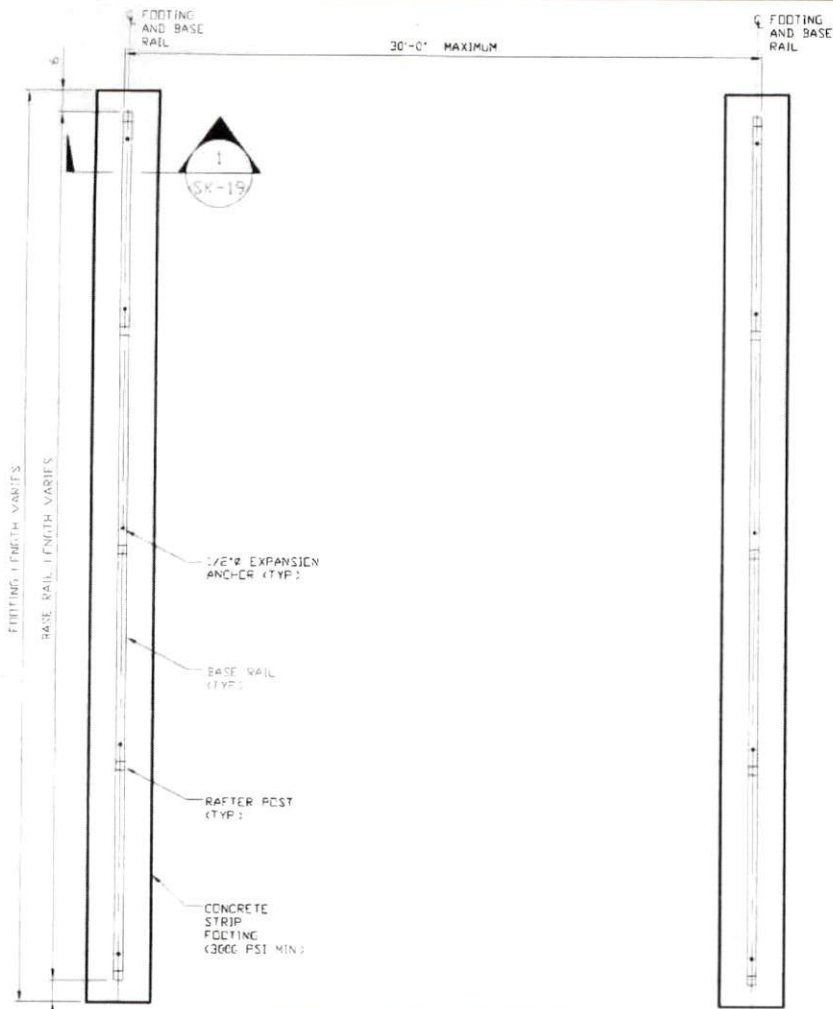
- NOTES**
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS
 2. FOR EXPOSURE C USE 10' SPACING (EVERY OTHER POST)



MAY 09 2018

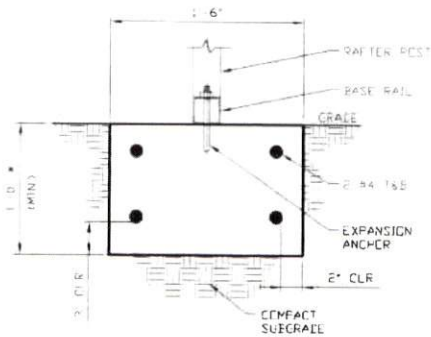
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	CLIENT: CAROLINA CARPORTS	SHT. 18	DWG. NO: SK-3	REV: 7

OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN

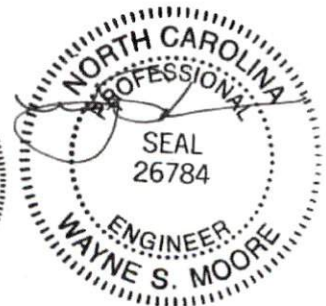
SCALE: NTS



SECTION

SCALE: NTS

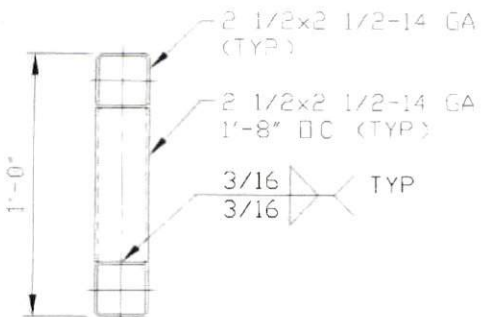
* COORDINATE WITH LOCAL CODES/ORD



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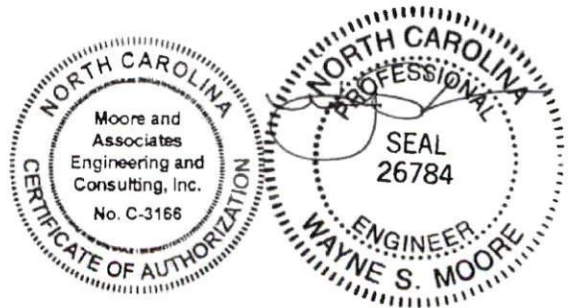
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OPTIONAL HEADER



HEADER DETAIL FOR OPENINGS
12'-0" ≤ LENGTH ≤ 20'-0"

SCALE: NTS



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