

PILOT MOUNTAIN, NORTH CAROLINA

STRUCTURAL DESIGN



Approved revised. Carport only-ground anchors

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

25 June 2019 Revision 1 M&A Project No. 18315S/19179S

Prepared for:

NC Carports and Garages, LLC 309 S. Depot Street Pilot Mountain, NC 27041

Prepared by:

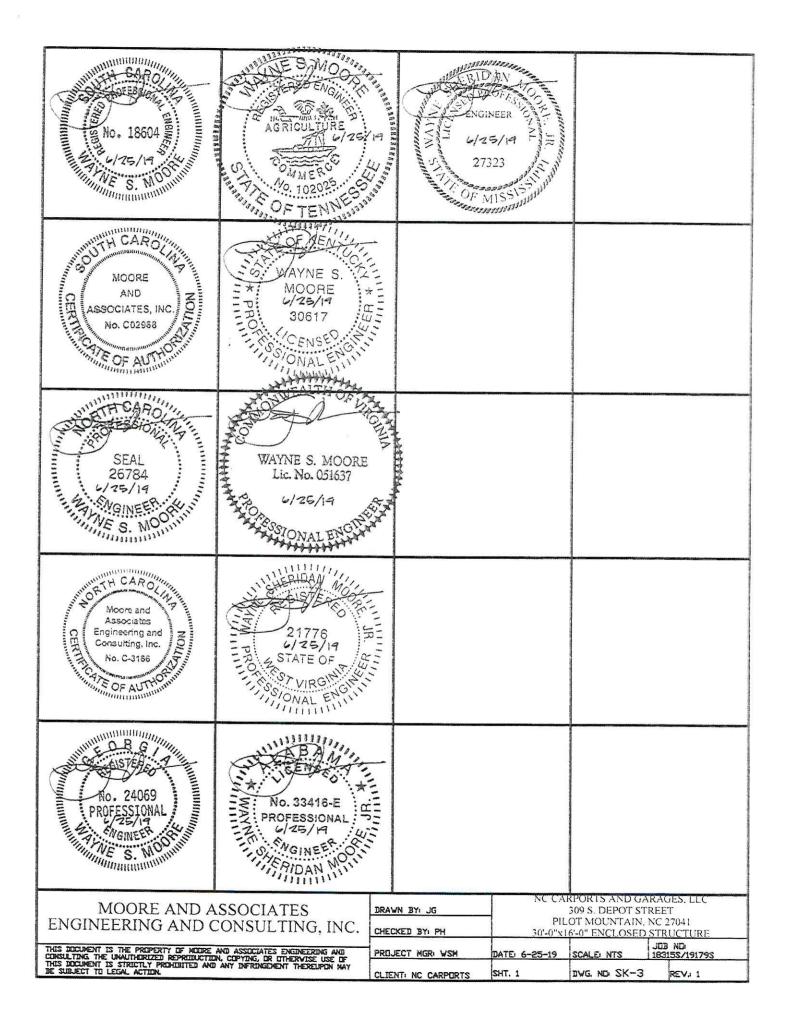
Moore and Associates Engineering and Consulting, Inc.

> 1009 East Avenue North Augusta, SC 29841

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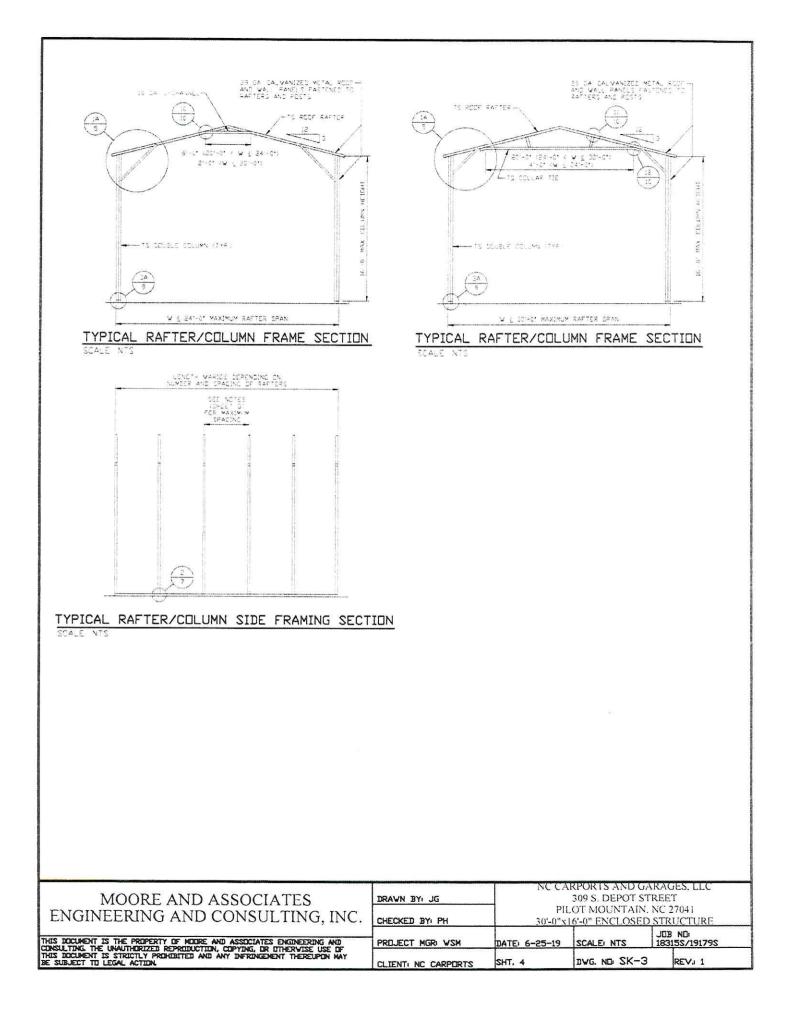


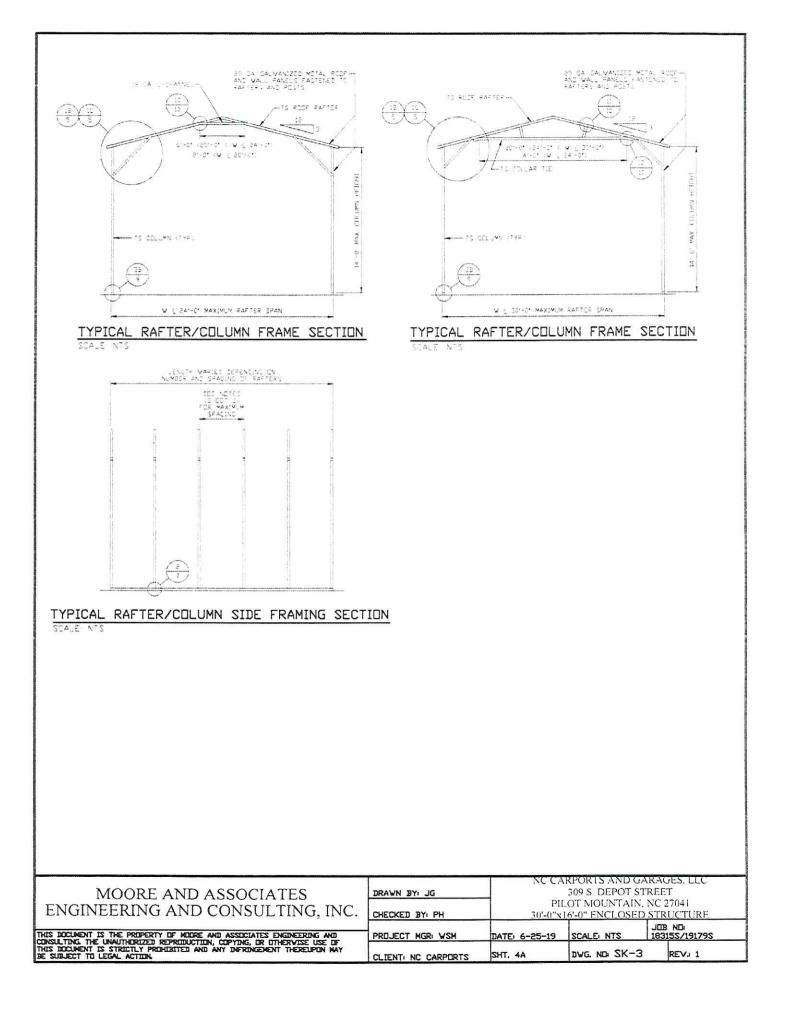
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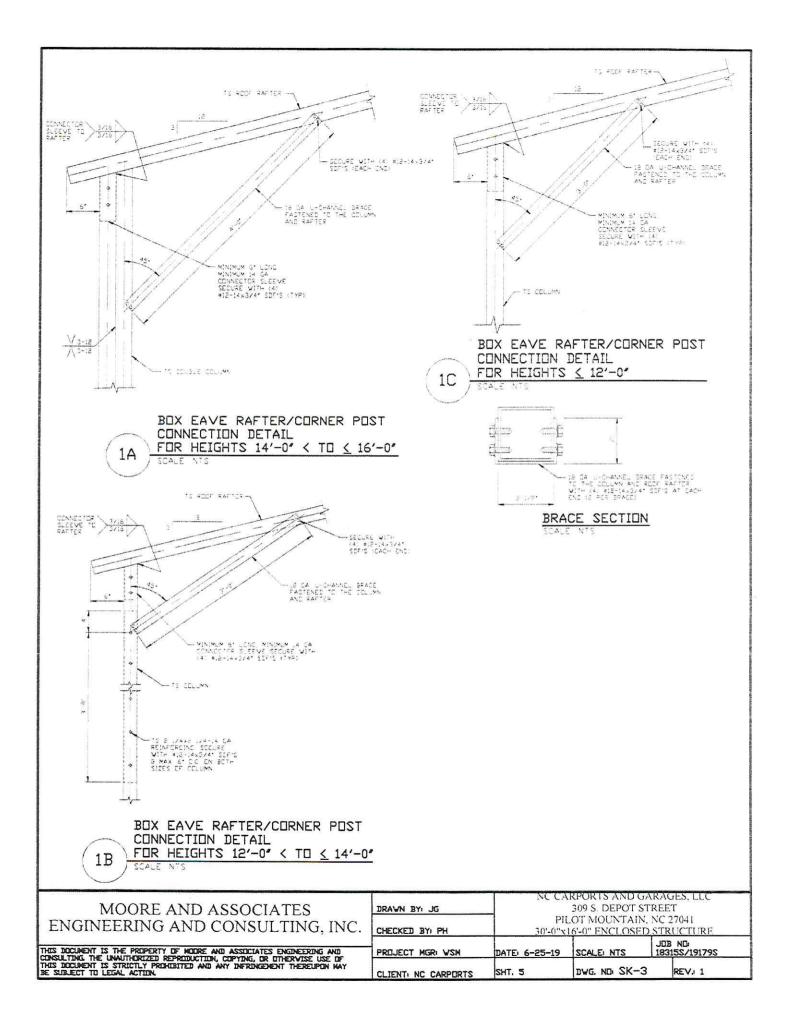


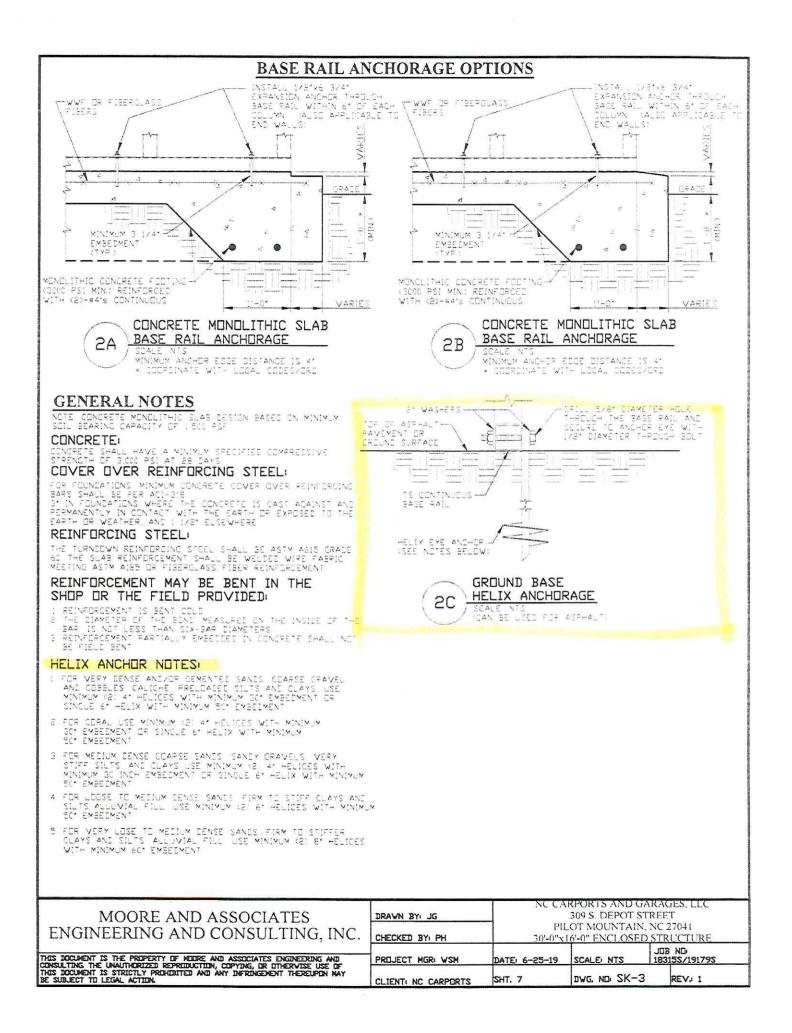
	INSTALLATION NOTES AND SPECIFICATIONS
	DESIGN IS FOR MAXIMUM BOTHET WIDE & 161-CT EAVE HEICHT ENCLOSED STRUCTURES
2	DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2005 INTERNATIONAL BUILDING CODE (1802) 2012 IEC AND 2015 IEC
3	DESIGN LEADS ARE AS FOLLOWS
	A) DEAD LOAD = 15 PSF B) LIVE LOAD = 12 PSF C) GROUND SNOW LOAD = 35 PSF = 30 PSF (W & 24'-01 WITH U-CHANNEL COLLAR TIE)
2	3-SECEND CUST ULTIMATE WIND SPEED (VULT) 105 TO 145 MPH (NOMINAL WIND SPEED BE TO 112 MPH)
S	MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
ê	SIDEWALL COLUMNS AND ENDWALL COLUMNS ARE SIMILAR IN SIZE UNLESS NOTED OTHERWISE.
7	RISK CATEGORY I
8	WIND EXPOSURE CATEGORY B
9	SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED DTHERWISE).
10.	AVERAGE FASTENER SPACING EN-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 9 INCHES
11.	FASTENERS CONSIST OF #18-14×3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN RODF HEIGHT OF 16 FEET OR LESS, AND RODF SLOPES OF 14" (312 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER RODF HEIGHT'S AND/OR SLOPES MAY MARY
12	ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN
13	STANDARD GROUND ANCHORS (SDIL NAILS) CONSIST OF 44 REBAR W/WELDED NUT 30° LONG SDIL NAILS MAY BE USED FOR WIND SPEEDS < 145 MPH AND IN SUITABLE SDIL CONDITIONS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED FOR WIND SPEEDS > 145 MPH ANGYOR IN SUITABLE SDILS AS NOTED
14	WIND FORCES COVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE
	SCHL SITE CLASS + D RISK CATEGORY IXIIVIII
	R= 3.25 1e= 10
	S ₂₅ = 2039 V= C ₅ W S-= 1256

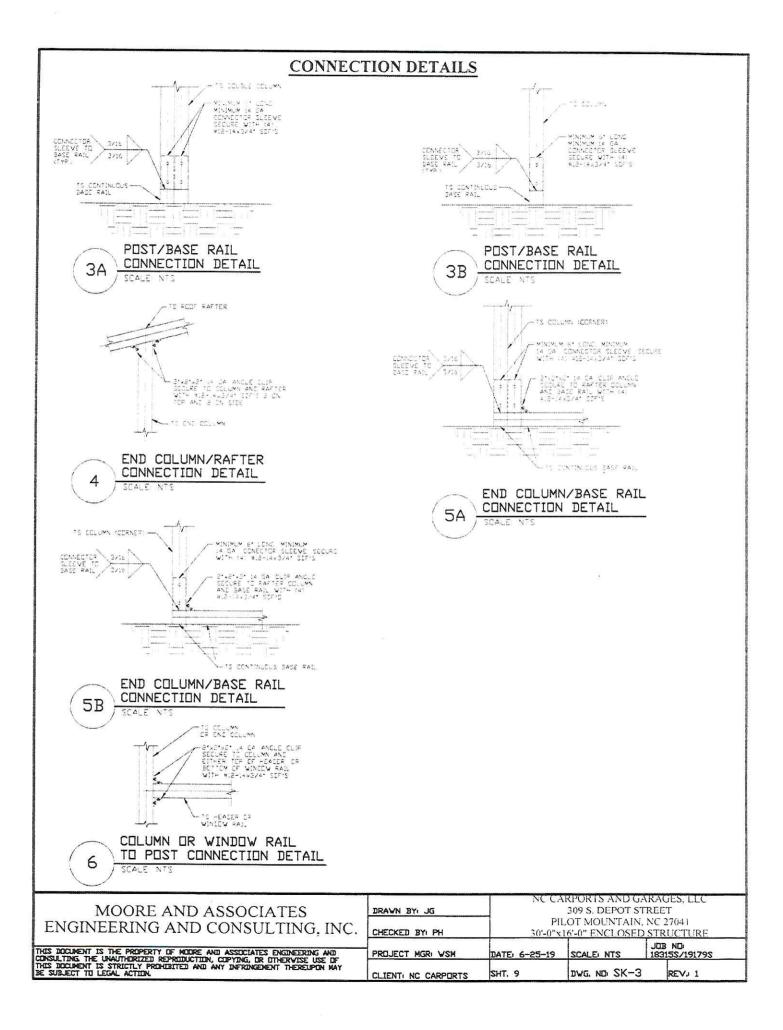
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ENGINEERING AND CONSULTING, INC.	CHECKED BY PH	<u> </u>	STRUCTURE		
MOORE AND ASSOCIATES	DRAWN BY JG	309 S. DEPOT STREET PILOT MOUNTAIN, NC 27041			

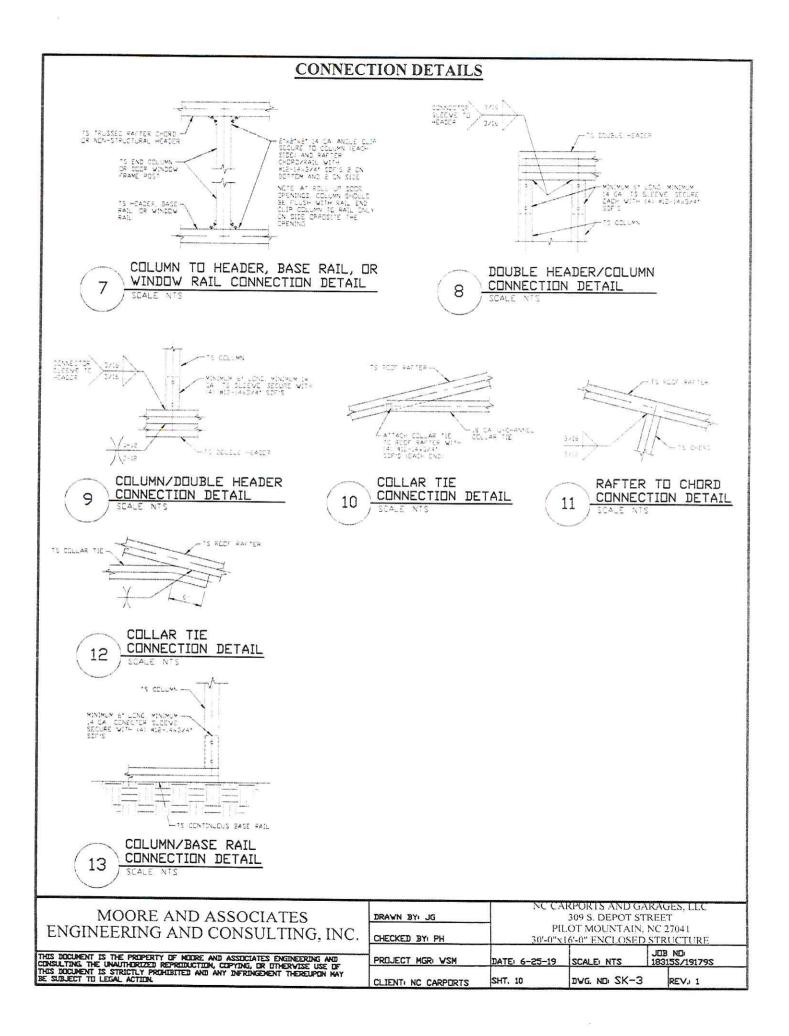






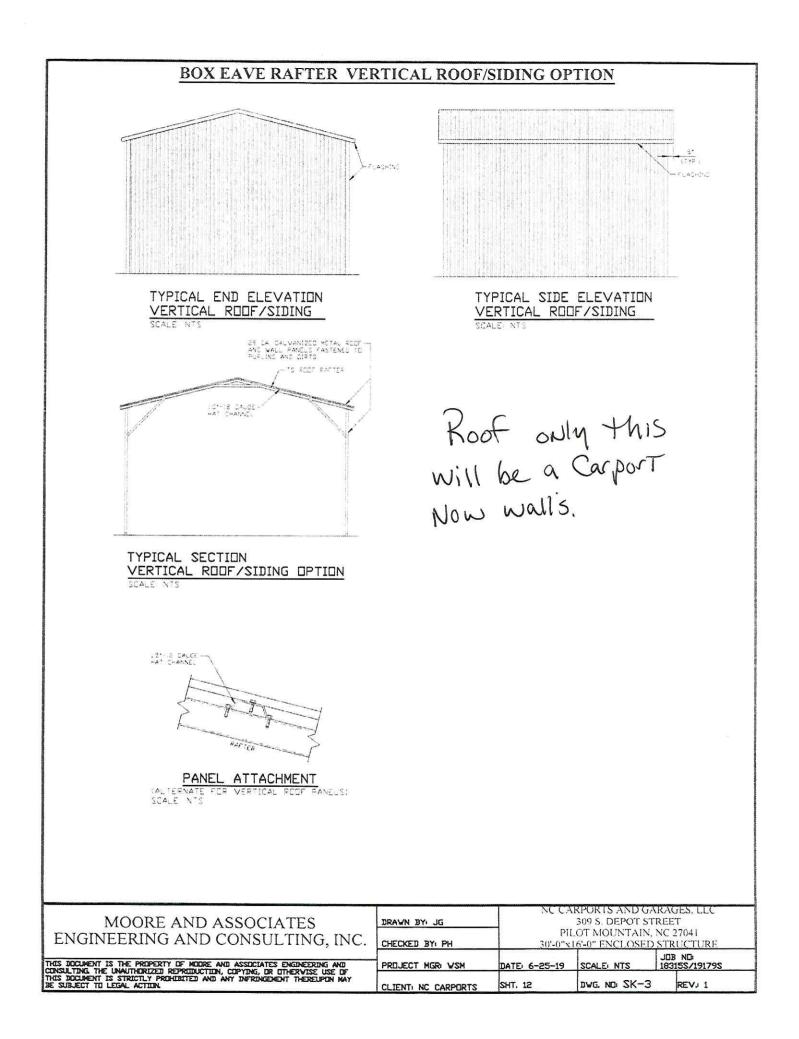




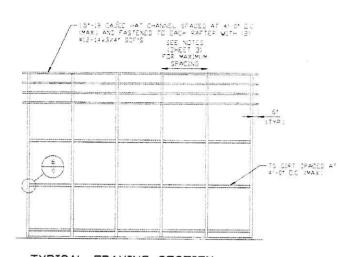


CONNECTION DETAILS

CONNEC	TION DETAILS			
TIS COLUMN DE ENG COLUMN AND SECURE 10 COLUMN AND EITRO TO FU FUNDER AND SUTION DF VINDER AND VITH MI2-1443/4* SDF'S VITH MI2-1443/4* SDF'S				
14 DOUBLE HEADER TO COLUMN CONNECTION DETAIL SCALE NTS				
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: PH	 PIL	RPORTS AND GAR 309 S. DEPOT STR OT MOUNTAIN, N 6'-0" ENCLOSED S	REET VC 27041
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION WITH TS GIRTS SCALE NTS

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MOORE AND ASSOCIATES	DRAWN BY: JG	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE		
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