

STRUCTURAL DESIGN

ENCLOSED BUILDING

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

> 12 April 2019 Revision 0 M&A Project No. 18378S



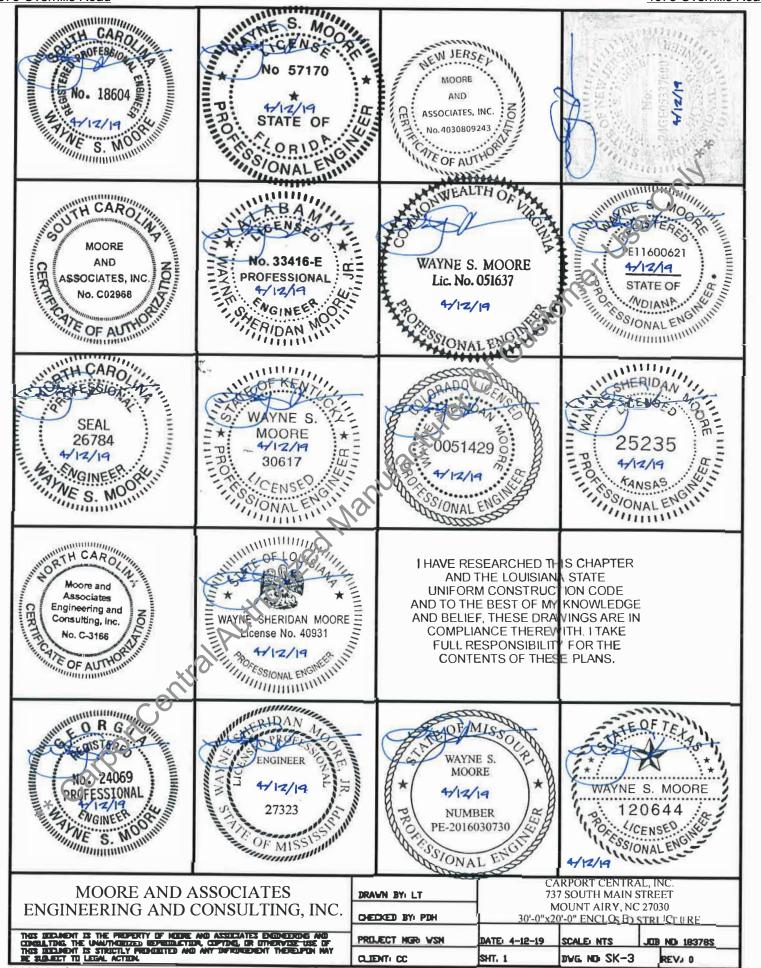
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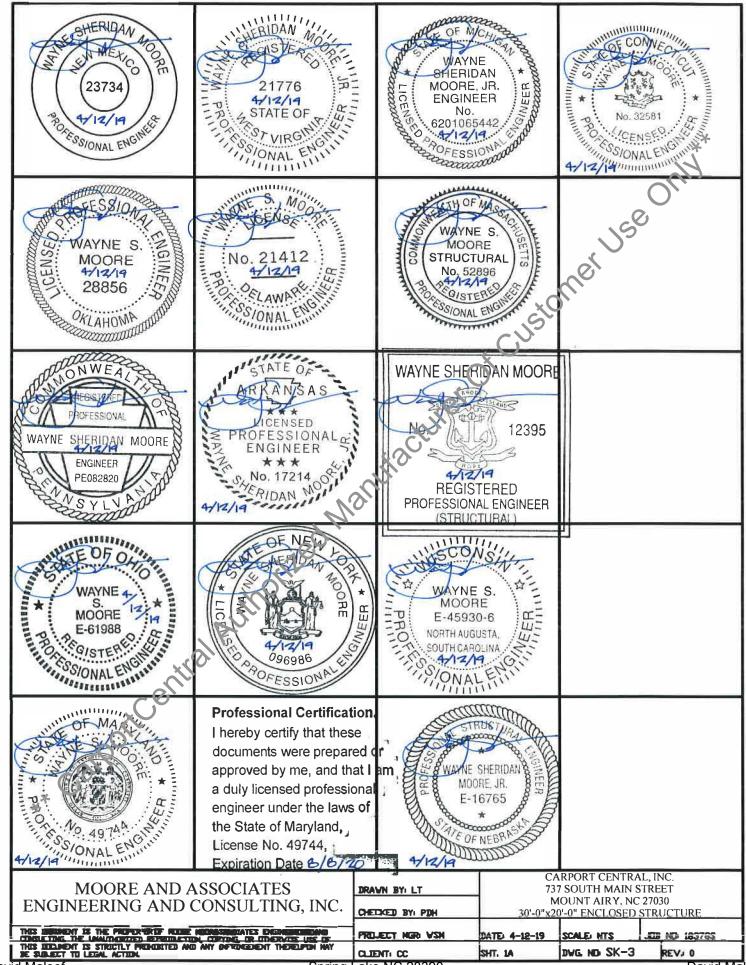
Prepared by:

1009 East Avenue
North Augusta, SC 29841

401 S **







SHEET 8A

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VERTICAL ROOF OPTION END AND SIZE ELEVATION AND SECTION

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

CARPORT CENTRAL, INC. DRAWN BY: LT 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 CHEDGED BY: PDH 30'-0"x20'-0" ENCLOSED STRUCTURE PROJECT NOR VSN SCALE: NTS DATE: 4-12-19 LIB ND 18378S

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DVG. ND SK-3

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REV, 0

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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 2018 NORTH CAROLINA BUILDING CODE, 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 INTERNATIONAL BUIDLING CODE (IBC), 2006 IBC, 2009 IBC, 2012 IBC, 2015 IBC, AND 2018 IBC.
- DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD = 1.5 PSF B) LIVE LOAD = 12 PSF

C) GROUND SNOW LOAD = 33 PSF AT 5'-0' D.C. SPACING = 42 PSF AT 4'-0" D.C. SPACING.

30 PSF (WITH U-CHANNEL PEAK BRACE) W < 26'-0"

(UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)

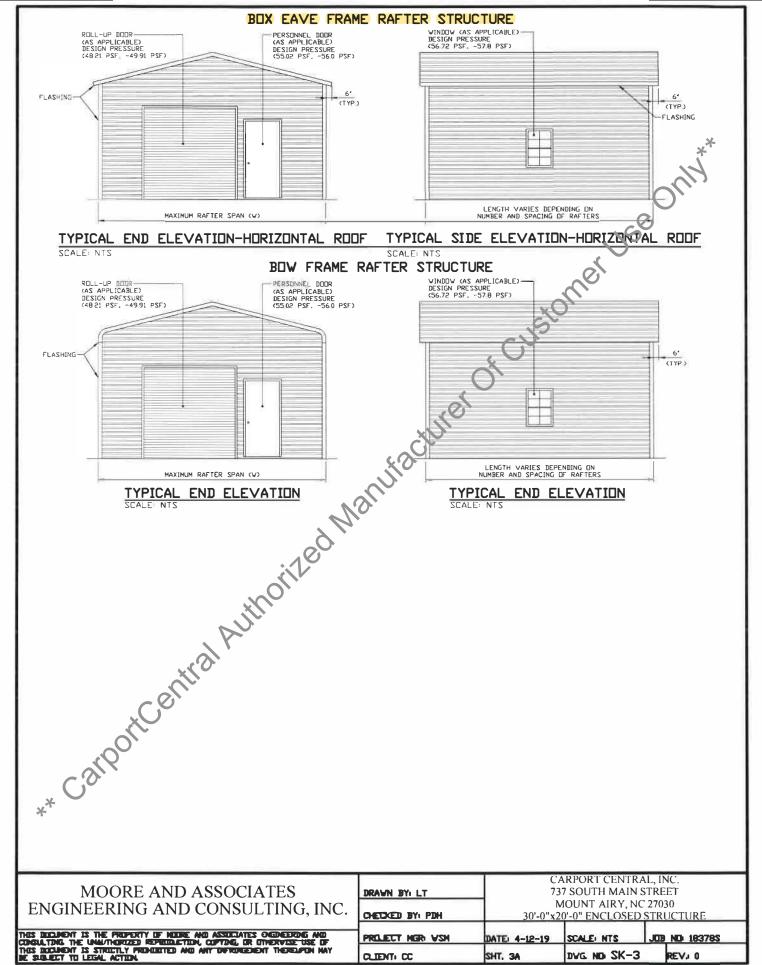
- 4 ULTIMATE WIND SPEED 105 TO 143 MPH (NOMINAL WIND SPEED 82 TO 110 MPH) MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET
- 5. ULTIMATE WIND SPEED 144 TO 155 MPH (NOMINAL WIND SPEED 111 TO 120 MPH). MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET
- 6 END WALL COLUMNS (POSTS) ARE SIMILAR TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED DTHERWISE.
- 7. LOW HAZARD 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 EMS 8 INCHES.
- 11. FASTENERS CONSIST OF #12-14×3/4" (UNLESS OTHERWISE NOTED) SELF-DRILLING FASTENER (SDF), USE COUTNOL 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 VAR
- 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 SUITABLE SOILS AND MUST BE USED FOR WIND V > 145 MPH AND/OR IN UNSUITABLE SOILS AS NOTED

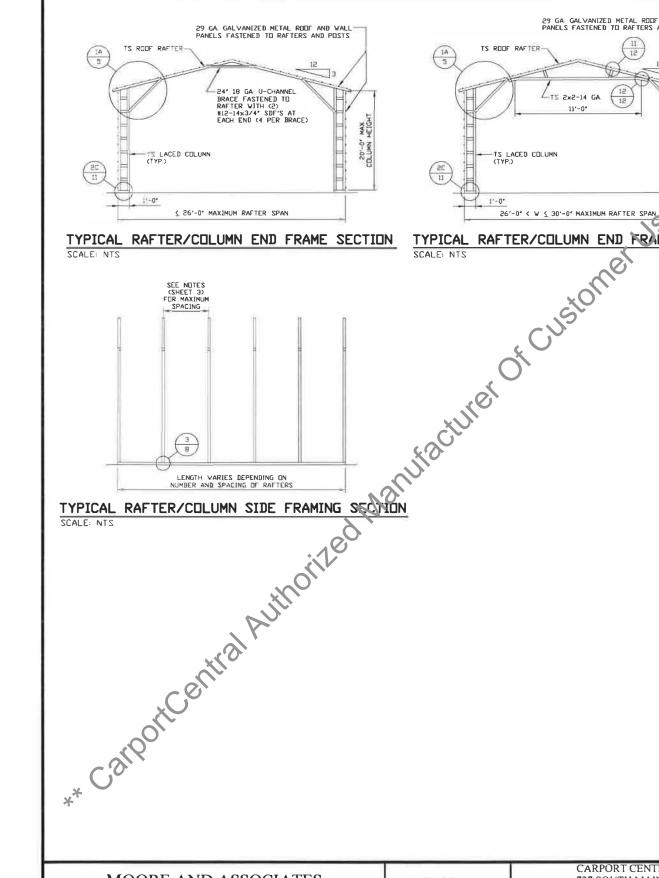
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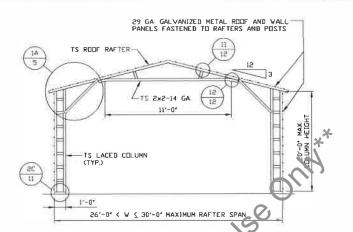
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O-ECOCED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
DRAWN BY: LT		CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET					





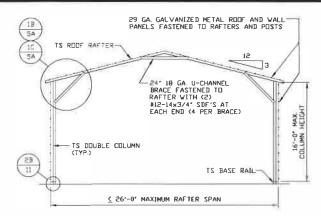


TYPICAL RAFTER/COLUMN END FRAME SECTION

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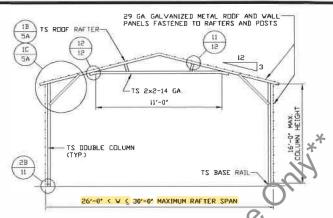
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CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT		CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET				



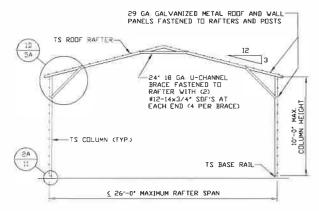
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

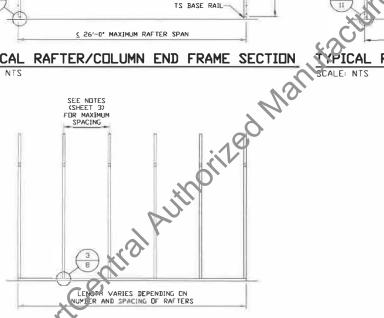
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS TS RODE RAFTER 12 SA 12 Тз S x2-14 GA 11'-0" MAX. HEIGHT COLUMN 2A 11 TS BASE RAIL 26'-0' < W < 30'-0' MAXIMUM RAFTER SPAN

RAFTER/COLUMN END FRAME SECTION



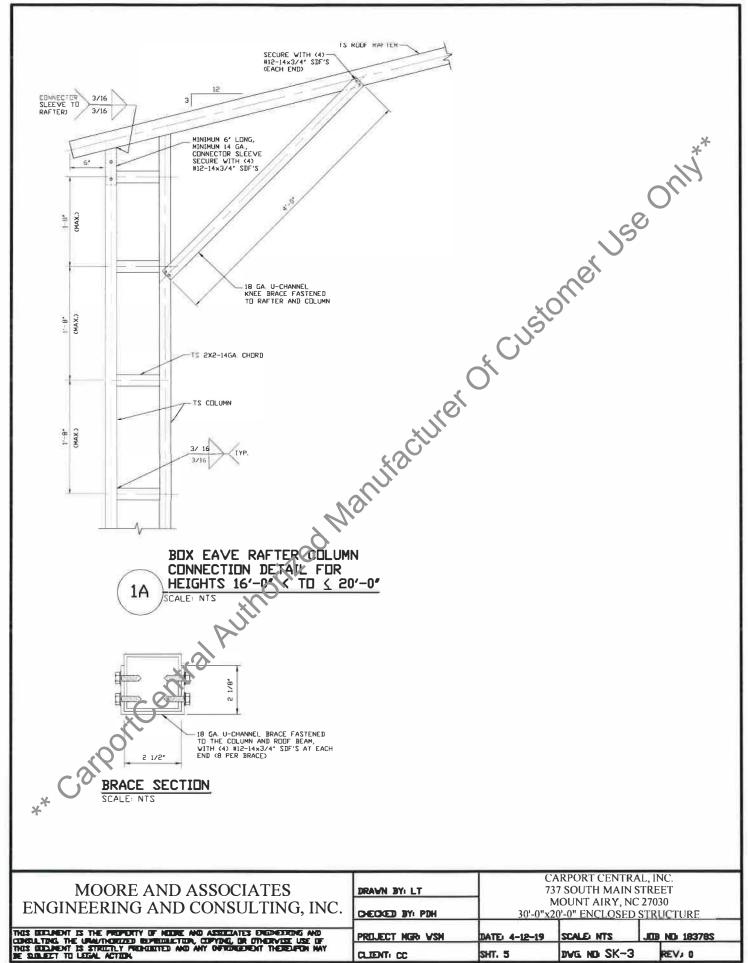
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

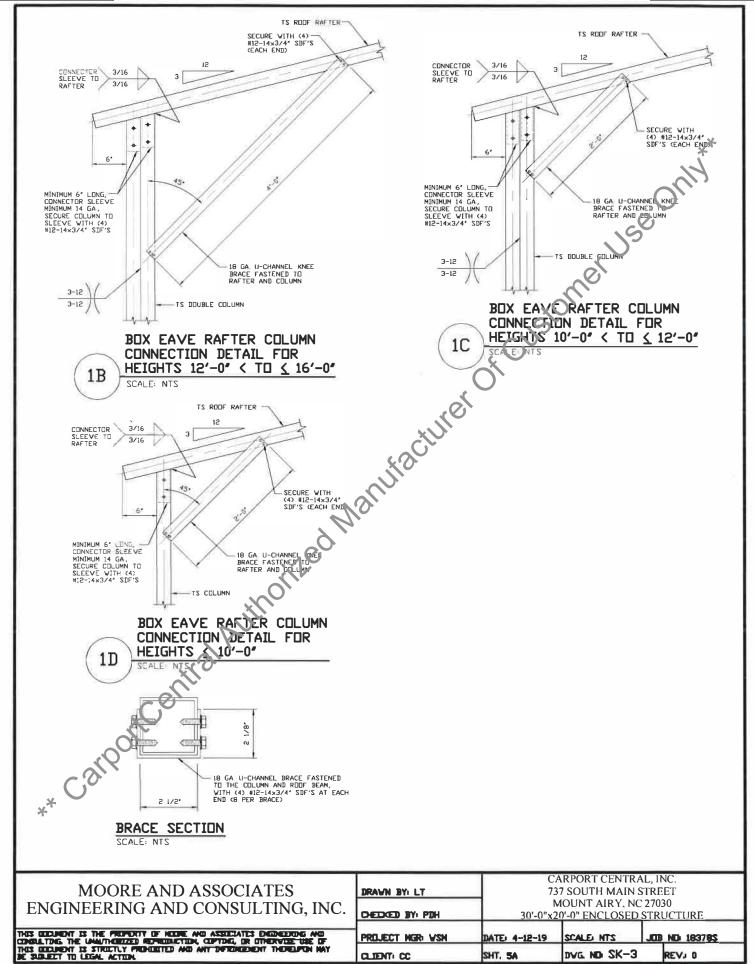
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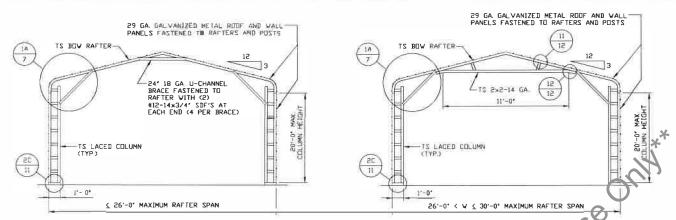
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DRAWN BY: LT	737 SOUTH MAIN STREET MOUNT AIRY, NC 27030				
	C	CARPORT CENTRAL, INC.			

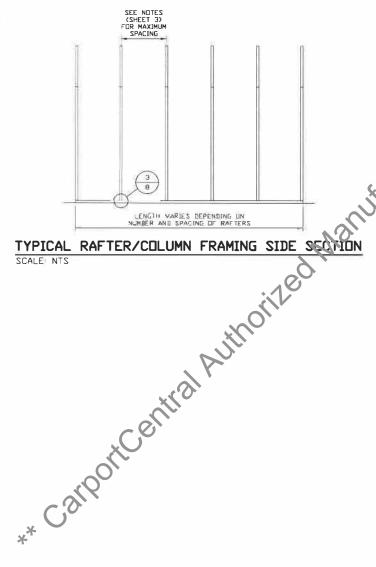
Spring Lake NC 28390







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INUITACITURE! OF CUSTOME! TYPICAL RAFTER/COLUMN END FRAME TYPICAL RAFTER/COLUMN END FRAME SECTION



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DWG. ND SK-3

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David Maloof 4678 Overhills Road Spring Lake NC 28390

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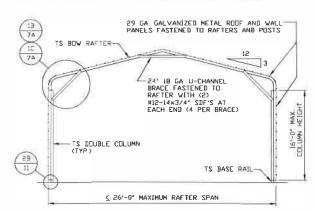
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REV. 0

TS BOW RAFTER-12

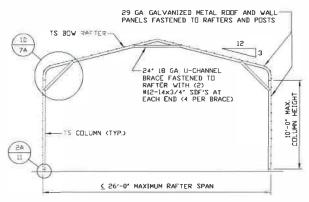
TS DOUBLE COLUMN

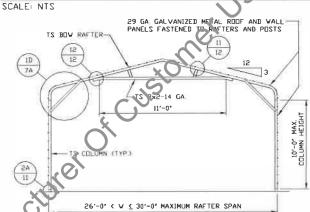
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TYPICAL RAFTER/COLUMN END FROME TYPICAL RAFTER/COLUMN END FRAME SECTION SECTION

2B 11





LTS 2×2-14 GA 11'-0'

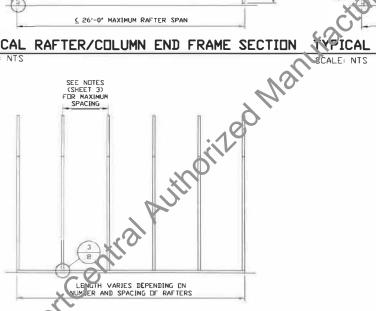
26'-0" < W & 30'-0" MAXIMUM RAFTER SPAN

29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS

TS BASE RAIL

TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RADER/COLUMN FRAMING SIDE SECTION

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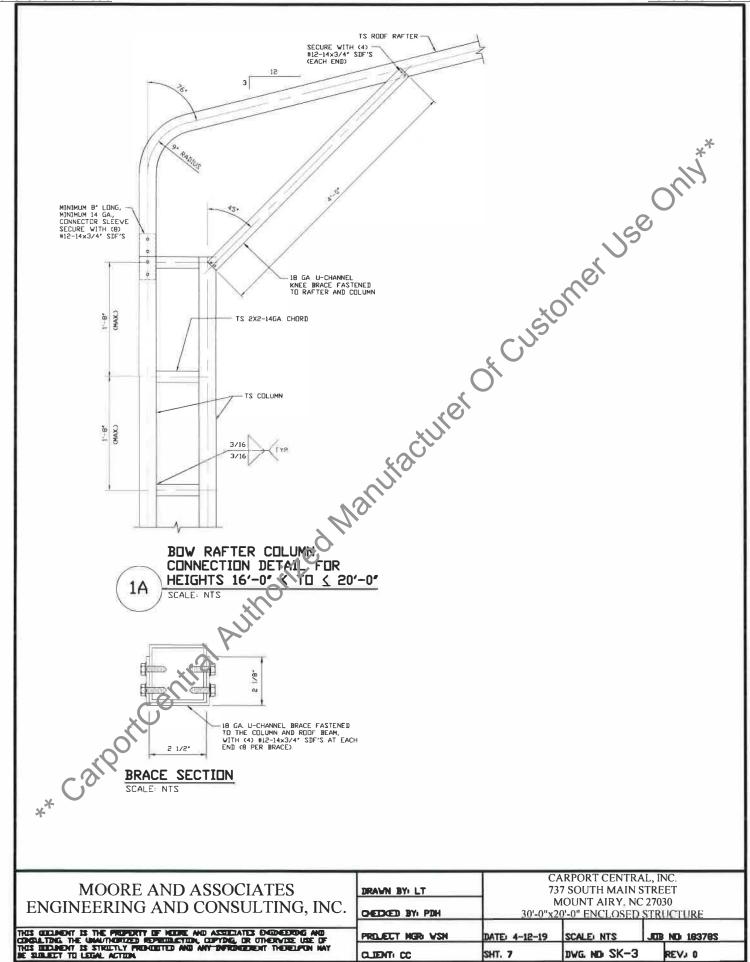
CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET DRAWN BY: LT MOUNT AIRY, NC 27030 CHEEDGED BY: PDH 30'-0"x20'-0" ENCLOSED STRUCTURE

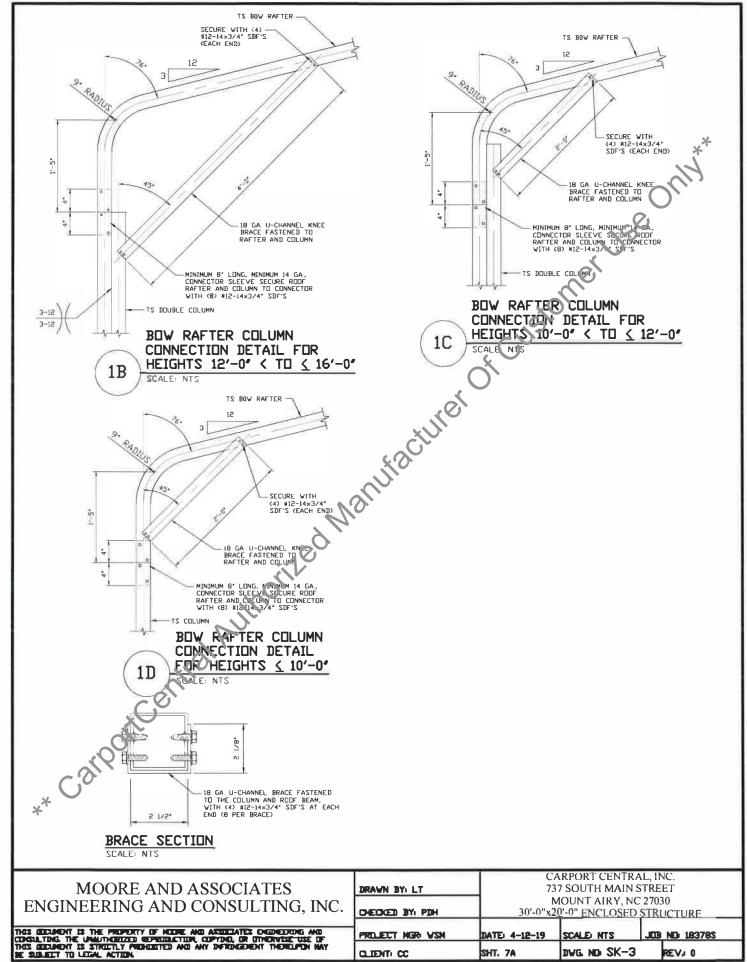
PRILLELT MICRO WISH CLIENT: CC

DATE: 4-12-19 SCALE NTS DVG. ND SK-3 SHT. 6A

David Maloof

IOB NO 18378S





BASE RAIL ANCHORAGE OPTIONS INSTALL 1/2"x6 1/2" EXPANSION ANCHOR THROUGH WWF OR FIBERGLASS BASE RAIL WITHIN 6' OF EACH COLUMN FIBERS REINF VAR GRADE CMIN.) 0 MINIMUM 3 1/4° EMBEDMENT (TYP) MONOLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS 1'-0" VARIES

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CONCRETE COVER DVER REINFORCING

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ANIMUM CONCRETE COVER DVER REINFORCING

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ANIMUM CONCRETE SCAST AGAINST AND

AMANENTLY IN CONTACT WITH THE EARTH DR EXPOSED TO THE

EARTH DR VEATHER, AND 1 1/2* ELSEWHERE

REINFORCING STEEL

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRATE

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRATE

MEETING ASTM AIGS OF FIBERGLASS FIBER REINFORCEMENT

REINFORCEMENT MAY BE BENT IN THE

SHOP OR THE FIELD PROVIDED

THE DEARLER OF THE BEND, MEASURED ON THE

BAR, IS NOT LESS THAN SIX-BAR DIAMETER

REINFORCEMENT PARTIALLY EMBEDDED

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- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELITATED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WILL MINIMUM 30" EMBEDMENT OR SINCLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 3C' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 5C' EMBEDMENT.
- 3 FOR MEDIUM DENSE CHARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 AND EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDIEN 4

 4 FOR LOUSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SIL'S ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT
- 5#FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.

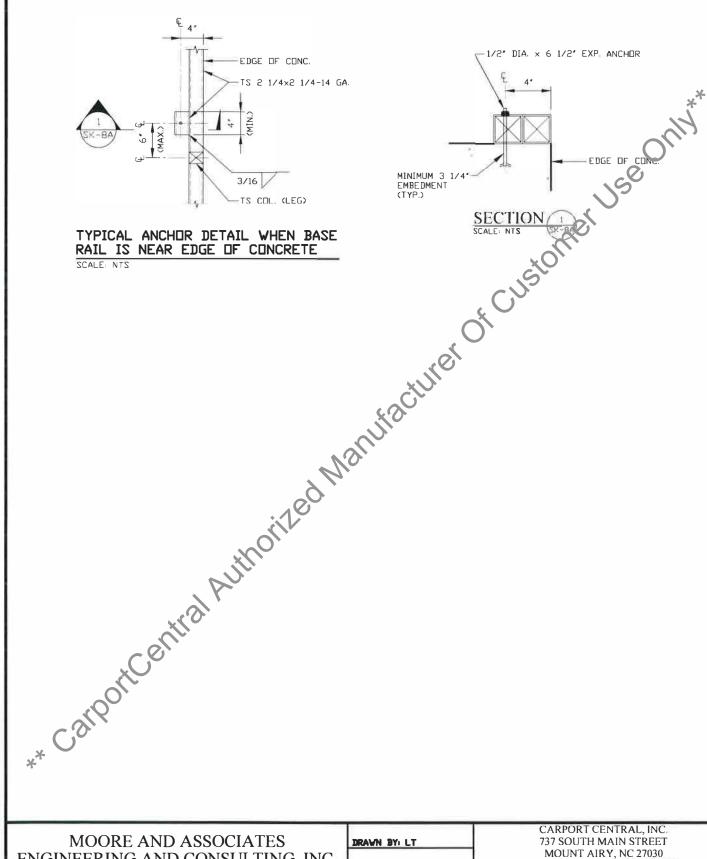
2" WASHERS 5/8' DIAMETER HOLE TOP OF ASPHALT THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH PAVEMENT OR GROUND SURFACE DIAMETER THROUGH BOLT SEONIN TS CONTINUOUS BASE RAIL HELICAL AUGER EYE ANCHOR (SEE NOTES BELOW) AUGER ANCHURAGE (CAN BE USED FOR ASPHALT) HELICAL ЗΒ

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-	PRILIEET NGR VSN	DATE: 4-12-19	SCALE NTS		ND 18378S	
	O-BOXED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
	DRAWN BY: LT	CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET				

BASE RAIL ANCHORAGE OPTIONS



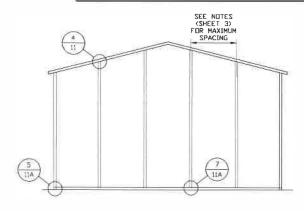
1/2" DIA. x 6 1/2" EXP ANCHOR

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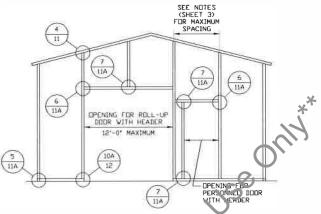
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	PROJECT MGR: WSM	DATE: 4-12-19	SCALE: NTS	JOE	ND 18378S	
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTU				
	DRAWN BY: LT	7.	737 SOUTH MAIN STREET			
ī		CARPORT CENTRAL, INC.				

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



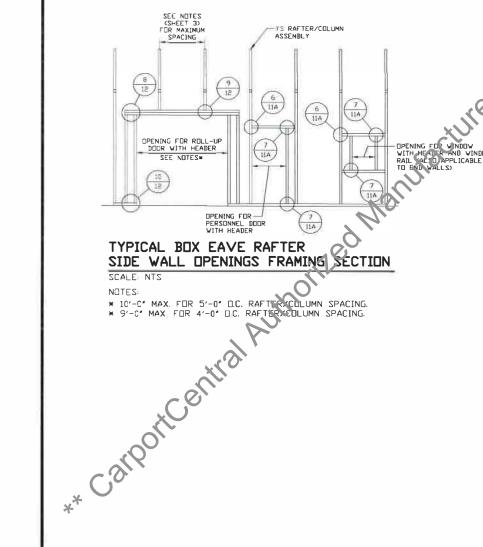
TYPICAL BOX EAVE RAFTER

END WALL FRAMING SECTION SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION Het Of Chistor

SCALE: NTS



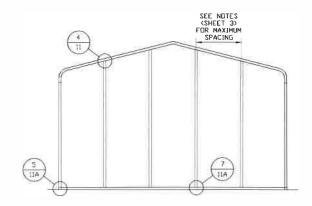
SIDE WALL OPENINGS FRAMING SECTION

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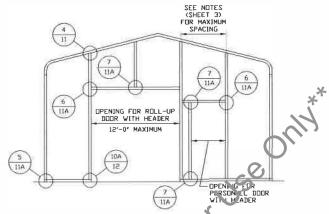
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DRAWN BY: LT	7:	CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET			

BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS

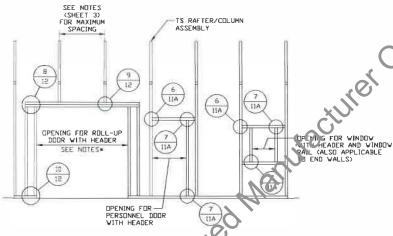


TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER AND Her Of Chesto WALL OPENINGS FRAMING SECTION



TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

NOTES:

* 10'-0' MAX. FOR 5'-0' D.C. RAFTER/COLUMN SPACING. * 5'-0' MAX. FOR 1'-0' D.C. RAFTER/COLUMN SPACING. carport Central

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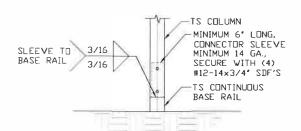
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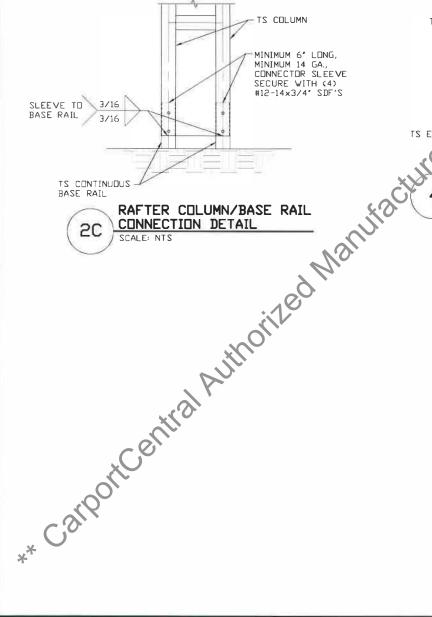
Spring Lake NC 28390

David Maloof 4678 Overhills Road

CONNECTION DETAILS



RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



TS DOUBLE COLUMN MINIMUM 6' LONG, CONNECTOR SLEEVE SLEEVE TO 3/16 MINIMUM 14 GA., SECURE WITH (4) BASE RAIL 3/16 #12-14x3/4' SDF'S TS CONTINUOUS BASE RAIL

> RAFTER COLUMN/BASE RAIL CONNECTION DETAIL 2B SCALE: NTS

2'x2'x2' 16 GA. ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH #12-14x3/4' SDF'S 2 ON TOP AND 2 ON SIDE TS END CELL

> END COLUMN/RAFTER CONNECTION DETAIL

SCALE: NTS

TS ROOF RAFTER

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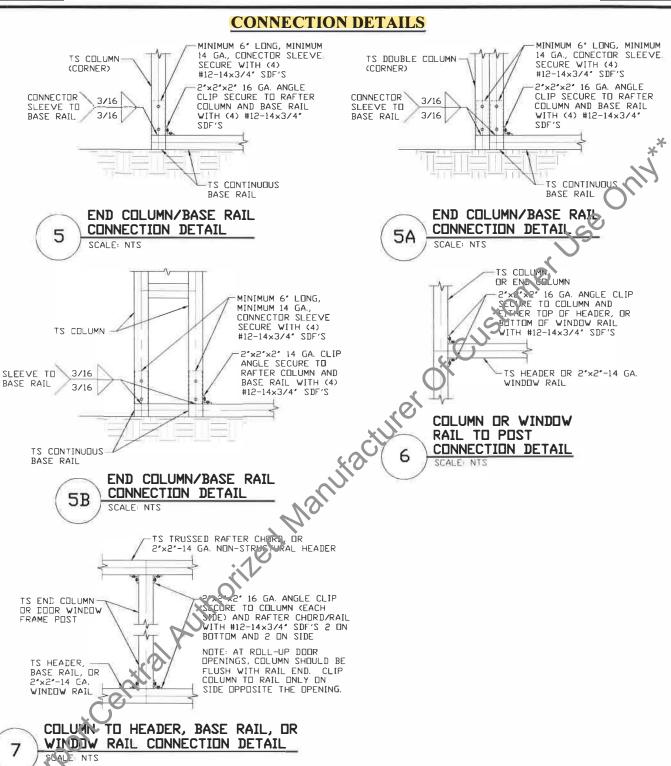
CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE

PROJECT MGR: VSM DATE: 4-12-19 SCALE: NTS JUB ND 18378S DAC NO 2K-3

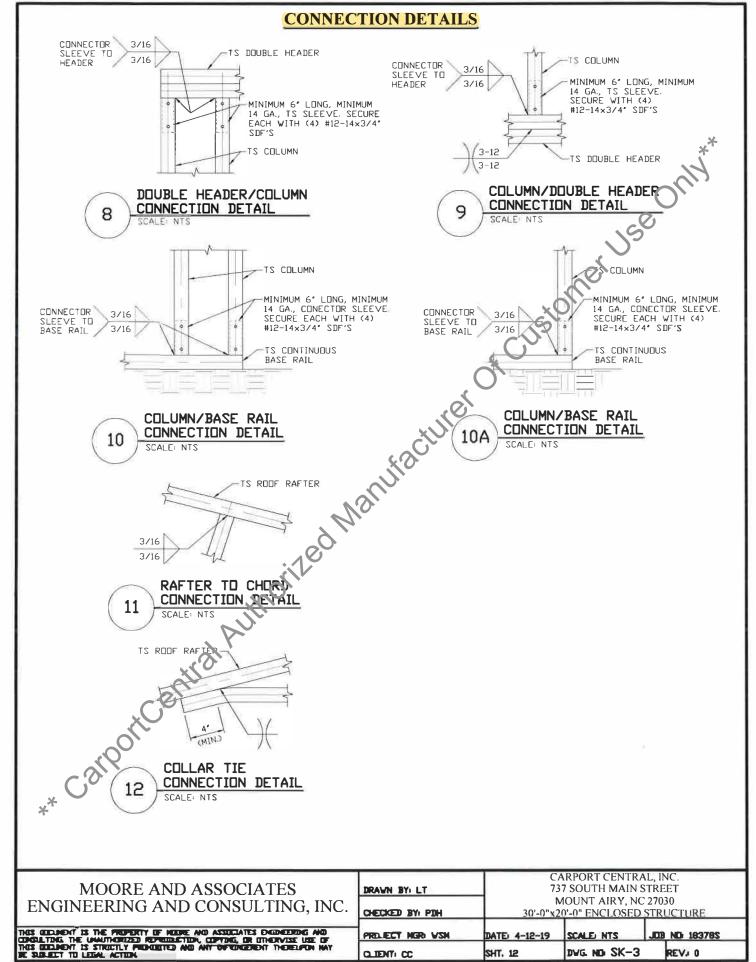
SHT. 11

DRAWN BY: LT

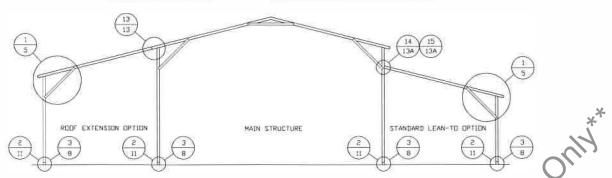
REV. 0



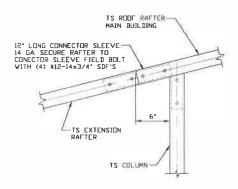
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAVN BY: LT	73 N	ARPORT CENTRA 7 SOUTH MAIN S 1OUNT AIRY, NC 0'-0" ENCLOSED	STREET C 27030
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TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



TS ROOF PAFTER MAIN BUILDING 12' LONG CONNECTOR SLEEVE = 14 GA. SECURE RAFTER TO CONECTOR SLEEVE FIELD BOLT WITH (4) #12-14x3/4' SDF'S TS DEUBLE-EXTENSION RAFTER TS COLUMN

3-12

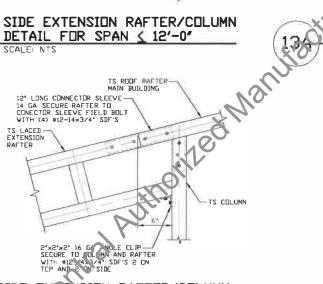
2'x2'x2' 16 GA ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH WI2-14x3/4' SDF'S 2 DN TOP AND 2 DN SIDE

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN & 12'-0" 13

SCALE: NTS

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 12'-0" < L < 16'-0"

SCALE: NTS



SIDE EXPENSION RAFTER/COLUMN DETAIL FOR SPAN 16'-0' < L \(\le 20'-0' \)

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

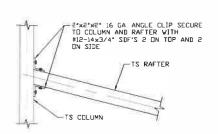
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PROLECT HOR VSH			JUB ND 18378S			
DRAVN BY: LT	-	737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
		CARPORT CENTRAL, INC.				

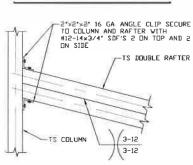
14

15

LEAN-TO OPTIONS

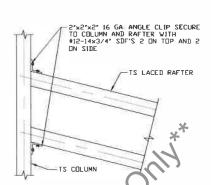


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN (12'-0'

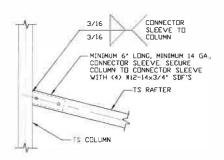


RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN 12'-0" < L \(\leq \) 16'-0"

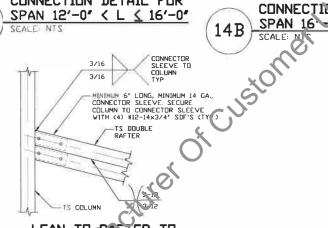
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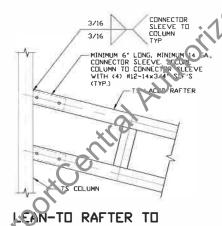
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16 9" < L \(20'-0"



LEAN-T□ RAFTER T□
RAFTER C□LUMN
C□NNECTI□N DETAIL
F□R SPAN ≤ 12'-0'
SCALE NTS

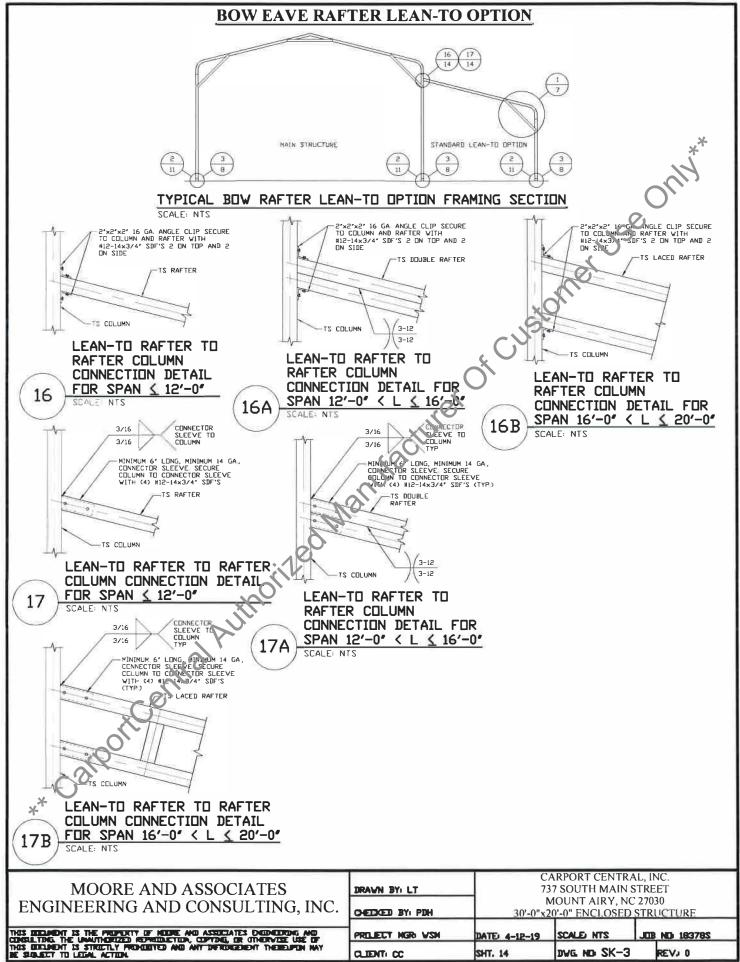


LEAN-TO RAITER TO RAFTER CULUMN CONNECTION DETAIL FOR SPAN 12'-0' < L \(\(\) 16'-0' \)

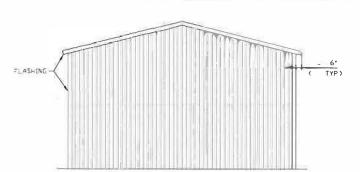


RAFTER COLUMN CONNECTION DETAIL FOR						
(G)	CONNECT:	ION DET	AIL FOR			
345 B	SPAN 16'	-0" < L	₹ 50,-0,			
FIOD L	SCALE NTS					
\ /						

THE STEAD OF INCIDENT IS STRUCTLY PROJUCTED AND ANY OFFICE DOT THE RESIDENT MAY	CLIENTI CC	SHT. 13A	DVG. ND SK-3	REV. 0	
CONSULTING THE UNGERTHERIZED RESPECTABLE CONTINUE OR CINERALS. USE IN	PROLECT MGR VSM	DATE: 4-12-19	SCALE: NTS	JUB NO 183	178
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	73 N	CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE		
		T C	DDODT CENTD	Al INC	_
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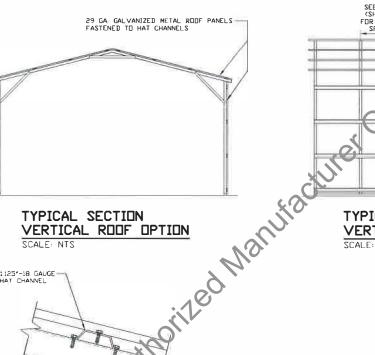






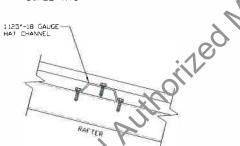
TYPICAL END ELEVATION VERTICAL ROOF

SCALE: NTS



TYPICAL SECTION VERTICAL ROOF OPTION

SCALE: NTS



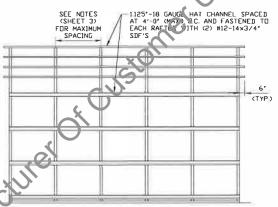
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE N.S ** Carport

(TYP) FLASHING

TYPICAL SIDE ELEVATION VERTICAL ROOF

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF OPTION

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

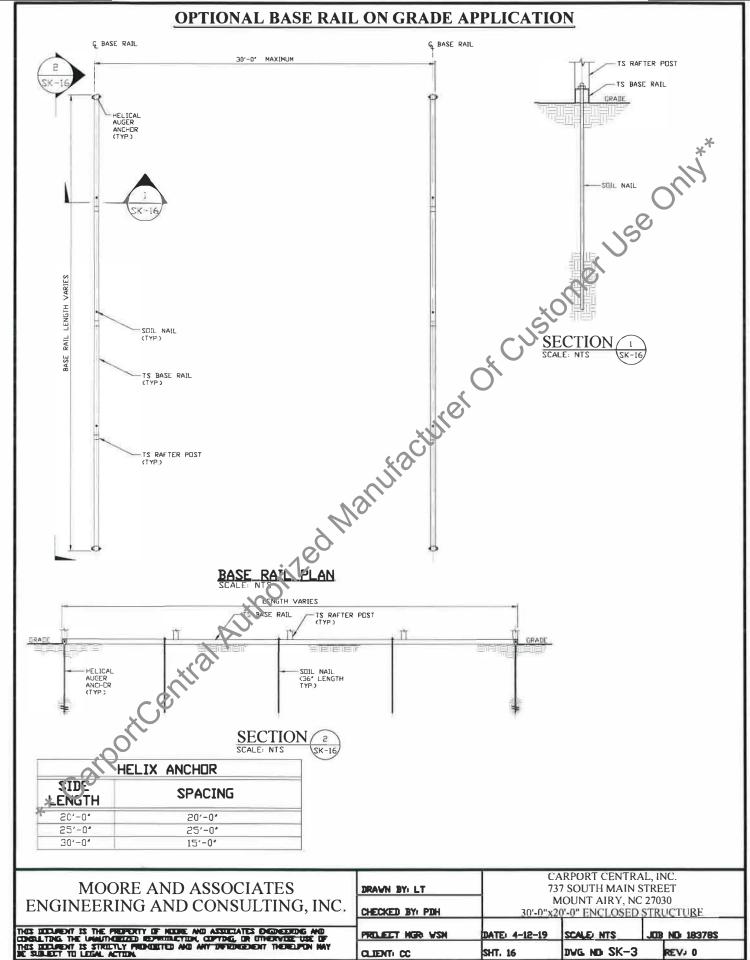
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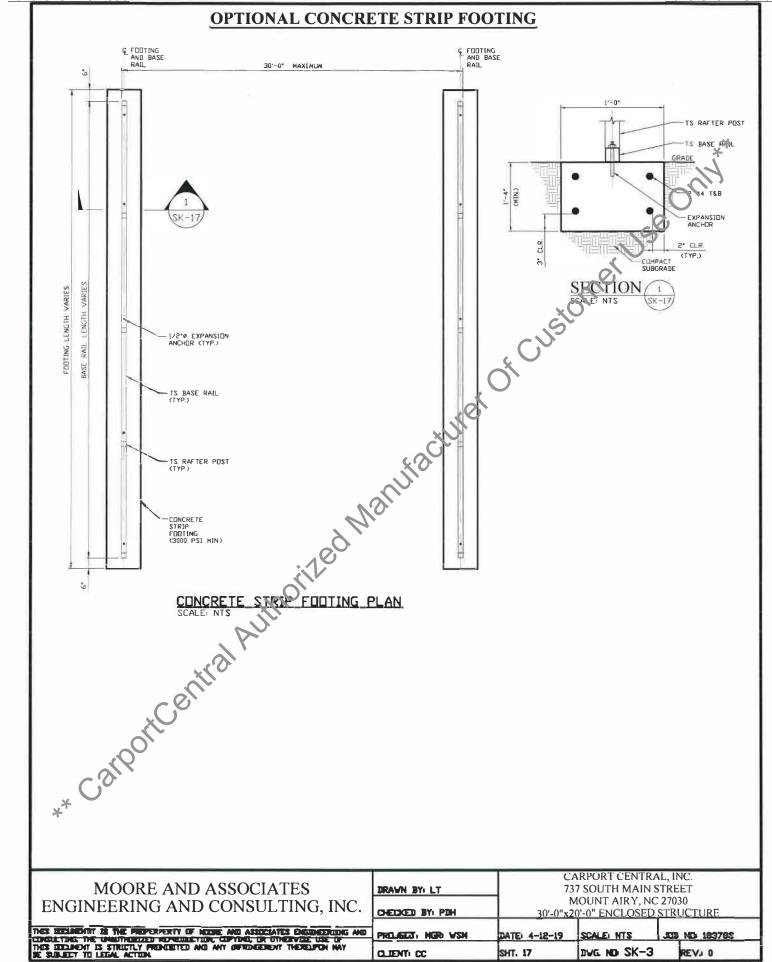
CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED STRUCTURE			
	MOUNT AIRY, NC 27030			
DRAWN BY: LT	737 SOUTH MAIN STREET			
	CARPORT CENTRAL, INC.			

PRILECT MGR VSM CLIENT: CC

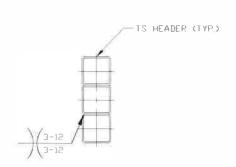
DATE: 4-12-19 SCALE: NTS DWG ND SK-3 SHT. 15

JEE NO 1837/85

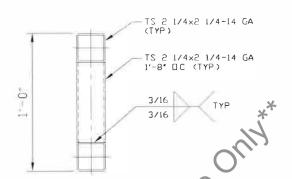




OPTIONAL HEADER



HEADER DETAIL FOR □PENINGS 10'-0" < LENGTH ≤ 15'-0"</pre> WITH 5'-0' D.C. RAFTER/COLUMN SPACING Carport Central Authorized Manufacturer Of Cust OR HEADER DETAIL FOR □PENINGS 9'-0' < LENGTH ≤ 13'-0'</pre>



HEADER DETAIL FOR

OPENINGS 15'-0' < LENGTH \$20'-0'

WITH 5'-0' D.C. RAFTEP (CONTINUE NO. 1) WITH 5'-0' D.C. RAFTER/COLUMN SPACING OR HEADER DETAIL FOR ♥ OPENINGS 13'-0' < LENGTH \(\) 20'-0' WITH 4'-0' D.C. RAFTER/COLUMN SPACING

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

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CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET DRAWN BY: LT **MOUNT AIRY, NC 27030** CHECKED BY PDH 30'-0"x20'-0" ENCLOSED STRUCTURE DATE: 4-12-19 SCALE NTS PROJECT NGRI VSH JUB NO: 18378S REV, 0 SHT. 18 DAC NO 2K-3 CLIENT: CC