

PILOT MOUNTAIN, NORTH CAROLINA

STRUCTURAL DESIGN ENCLOSED BUILDING

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

2 July 2020 Revision 2 M&A Project No. 18315S/19179S/20176S

Prepared for:

30' x 30'
Metal Building
With 12' lean to
and 10' Front over Hang
over to Roll up Door

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

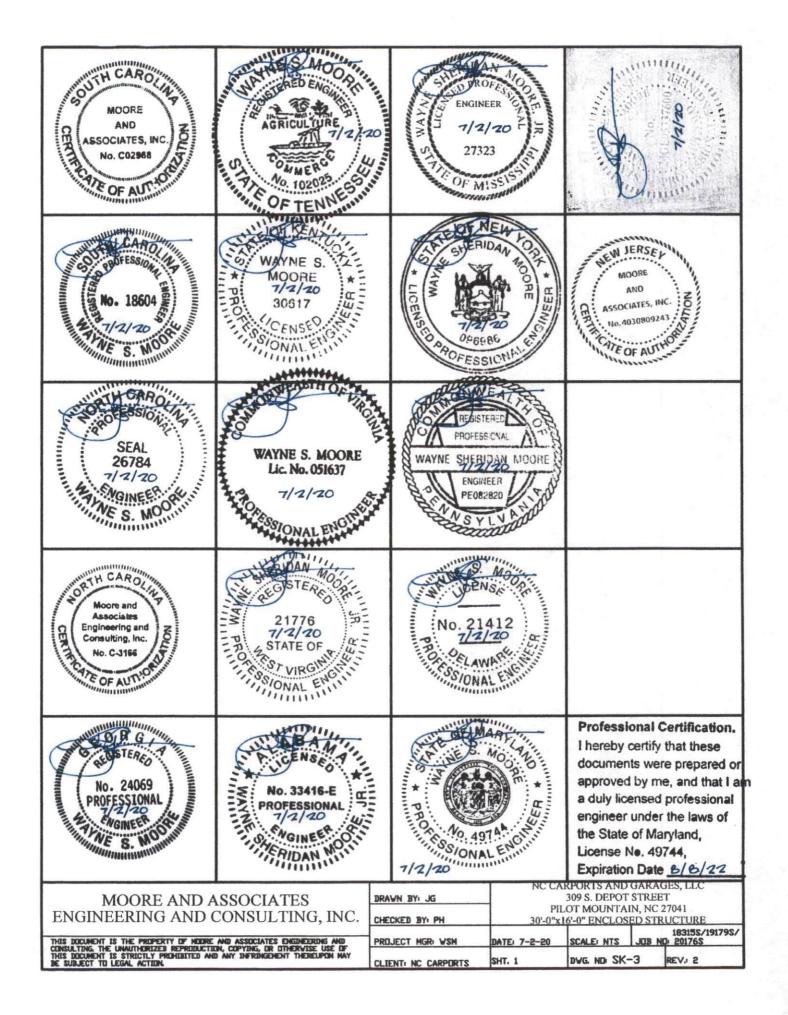
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

401 S. Main St., Suite 200 Mt. Airy, NC 27030





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MOORE AND ASSOCIATES	DRAWN BY: JG	
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DRAWN BY: JG	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET PILOT MOUNTAIN, NC 27041 30'-0"*x16'-0" ENCLOSED STRUCTURE			
PROJECT MGR: WSM	DATE: 7-2-20		18315S/191793 JOB NO: 20176S	
CLIENT: NC CARPORTS	SHT. 2	DWG. ND SK	-3	REV. 2

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE x 16'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2009 INTERNATIONAL BUILDING CODE (IBC), 2012 IBC, 2015 IBC AND 2018 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

B) LIVE LUAD

= 12 PSF

C) GROUND SNOW LOAD

= 35 PSF

= 30 PSF (W & 24'-0' WITH U-CHANNEL COLLAR TIE)

NOTE: UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH).
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 6. 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" x 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10. AVERAGE FASTENER SPACING DN-CENTERS ALDNG RAFTERS DR HAT CHANNELS, AND COLUMNS (INTERIOR DR END) = 9 INCHES.
- 11. 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 16 FEET OR LESS, AND 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 (SUIL NAILS) CONSIST OF #4 REBAR W/WELDED NUT 30' LONG. SUIL NAILS MAY BE USED FOR WIND SPEEDS 145 MPH AND IN SUITABLE SUIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SUILS AND MUST BE USED FOR WIND SPEEDS > 145 MPH AND/OR IN SUITABLE SUILS AS NOTED.
- 14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

R= 3.25

I_E= 1.0 Sps= 2.039 V= CsW

 $S_{Di} = 1.258$

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	PROJECT MGR: VSM	DATE: 7-2-20	SCALE: NTS	JOB N	18315\$/19179\$/ D 20176\$
	CLIENT: NC CARPURTS	SHT. 3A	DVG. ND SK	-3	KEA' 5

BOX EAVE FRAME RAFTER STRUCTURE RIGHL-UP BODR (AS APPLICABLE) PERSONNEL DOOR (AS APPLICABLE) FLASHING FLASHING TYPICAL SIDE ELEVATION SCALE: NTS SCALE: NTS

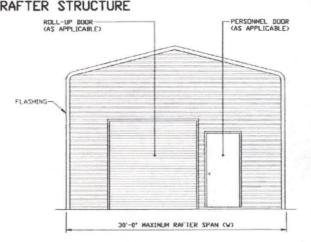
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_	PROJECT MGR: VSM	JECT MGRI VSN DATE: 7-2-20	SCALE: NTS	JOB N	18315\$/19179\$/ ID: 20176\$
	CLIENTI NC CARPORTS	знт. эв	DWG. ND: SK	-3	REVJ 2

BOW EAVE FRAME RAFTER STRUCTURE ROLL-UP BOOR (AS APPLICABLE) FLASHING FLASHING LENGTH VARIES BEPENDING DN NUMBER AND SPACING OF RAFTERS 30'-1

TYPICAL SIDE ELEVATION

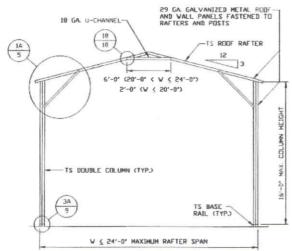


TYPICAL END ELEVATION SCALE: NTS

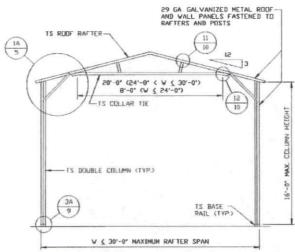
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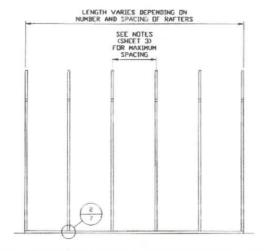
	CLIENT, NC CARPIERS	SHT, 3C	DWG. ND SK	-3	REVJ 2
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	DRAWN BY: JG	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET			



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

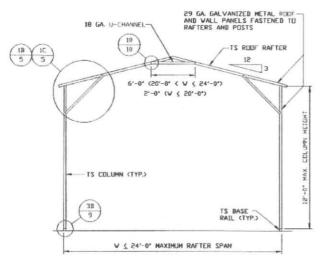


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE, NTS

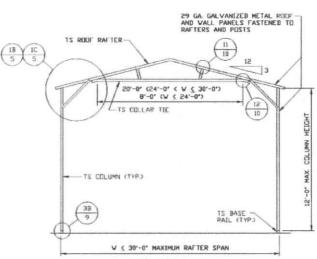
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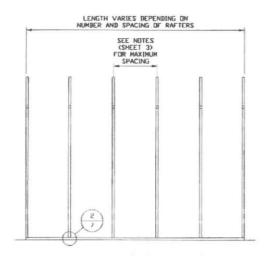
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	CLIENT: NC CARPORTS	SHT. 4	DWG. ND SK	-3	REV. 2	



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

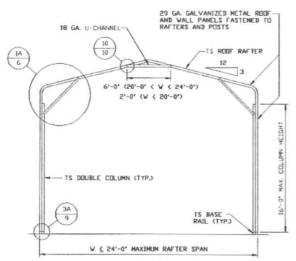


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

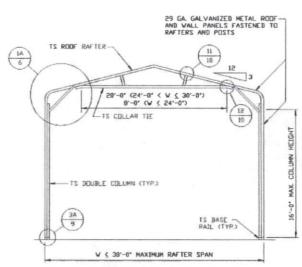
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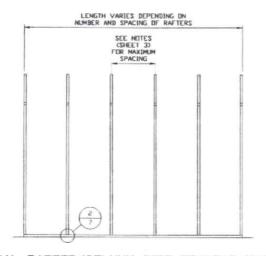
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TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

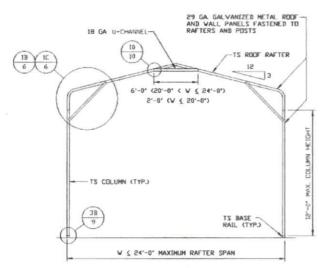


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

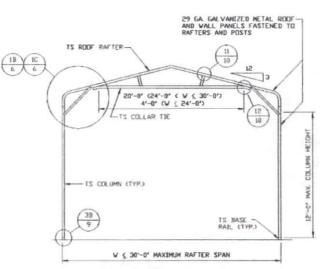
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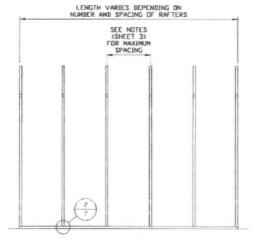
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

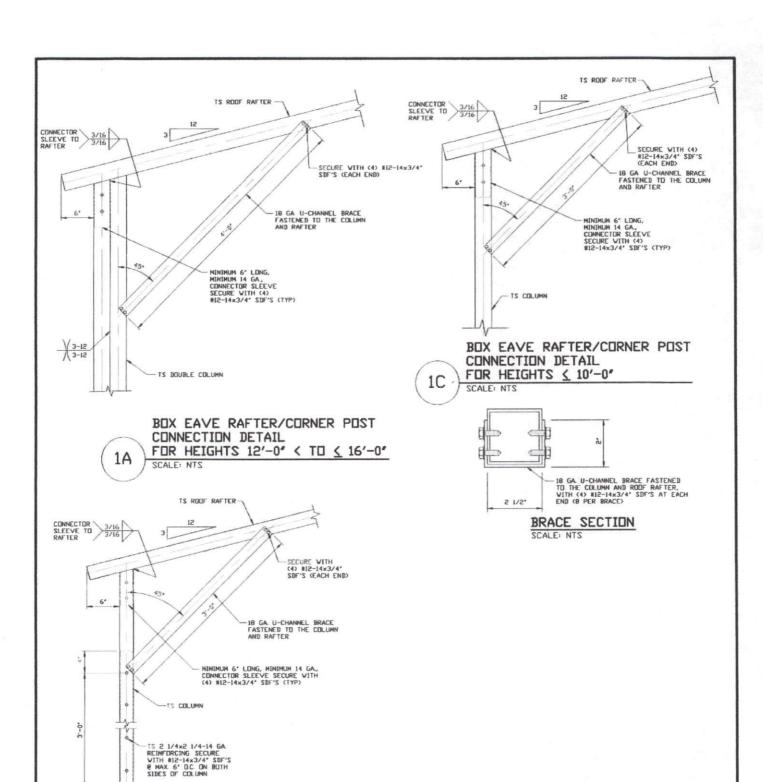


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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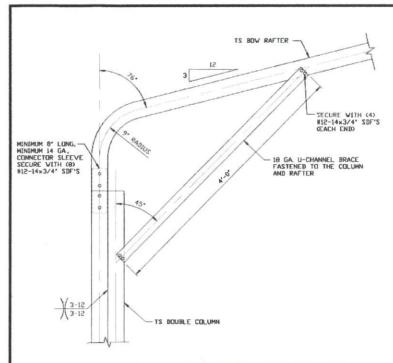
BOX EAVE RAFTER/CORNER POST

FOR HEIGHTS 10'-0' < TO ≤ 12'-0'

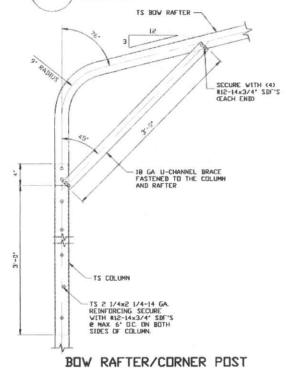
CONNECTION DETAIL

SCALE: NTS

1B



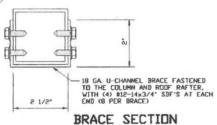
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0" 1A SCALE: NTS



TS BOW RAFTER SECURE WITH (4) H12-14x3/4" SDF'S CEACH END) HINIMUM B' LONG, — HINIMUM 14 GA., CONNECTOR SLEEVE SECURE WITH (B) B12-14x3/4' SDF'S 18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND RAFTER -TS COLUMN

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0' 1C

SCALE: NTS



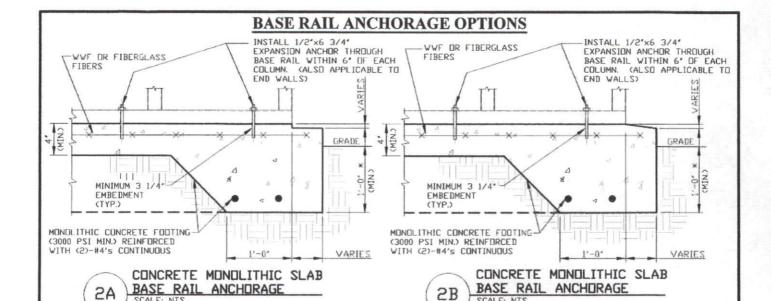
SCALE: NTS

CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 12'-0" 1B SCALE: NTS

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CLIENT: NC CARPORTS	SHT. 6	DVG. ND SK	-3	REV. 2	



MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL BUILDING CODE

AND/ORD REGARDING MINIMUM FROST DEPTH

GENERAL NOTES

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

MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL BUILDING CODE

AND/ORD REGARDING MINIMUM FROST DEPTH

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 PARS SHALL BE PER ACI-318:
3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPUSED 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:

REINFORCEMENT IS BENT COLD.

THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT

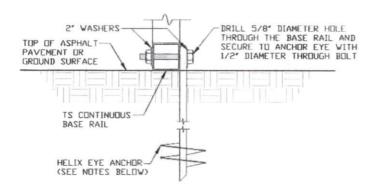
BE FIELD BENT.

HELIX ANCHOR NOTES:

- 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.
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 3. FUR 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 LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT
- FOR VERY LOSE 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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BASE RAIL ANCHORAGE OPTIONS

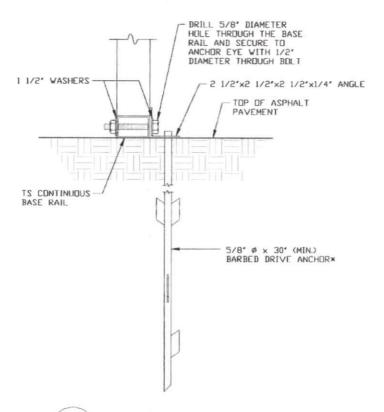


SC

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

* COORDINATE WITH LOCAL BUILDING CODE AND/ORD REGARDING MINIMUM FROST DEPTH



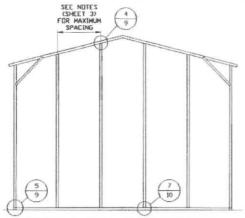
SD

ASPHALT BASE ANCHURAGE

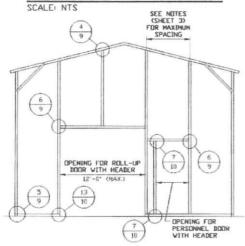
* COORDINATE WITH LOCAL BUILDING CODE AND/ORD REGARDING MINIMUM FROST DEPTH (LENGTH).

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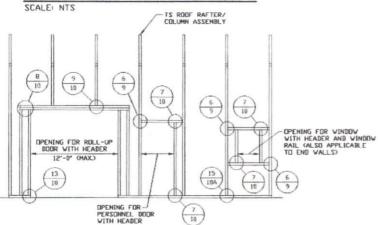
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION SCALE: NTS

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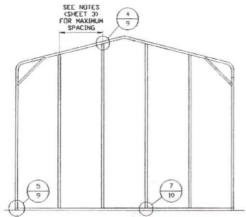
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CLIENTI NC CARPORTS	SHT, B	DVG. ND SK	-3	REV. 2			

SEE NOTES 3) FOR MAXIMUM SPACING DPENING FOR ROLL-UP BOOR WITH HEADER 20'-0' (MAX.) 7 9 10 PERSONNEL DOOR WITH HEADER VITH HEADER

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

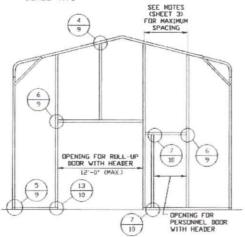
SCALE: NTS

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

- OPENING FOR VINDOV VITH HEADER AND VINDOV RAIL (ALSO APPLICABLE TO END VALLS)

TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION

7

PERSONNEL DOOR WITH HEADER

SCALE: NTS

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The same of the same	DRAWN BY: JG	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET PILOT MOUNTAIN, NC 27041				
	CHECKED BY: PH	30'-0"x16'-0" ENCLOSED STRUCTURE				
	PROJECT NGR: WSN	DATE: 7-2-20	SCALE: NTS	JOB N	18315\$/19179\$/ ID: 20176\$	
	CLIENTI NC CARPORTS	SHT. BA	DVG. ND SK	-3	REV. 2	

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TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

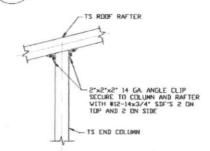
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS

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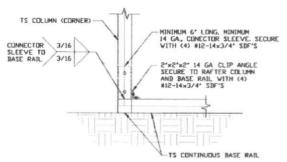
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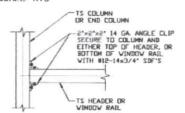
3A POST/BASE RAIL CONNECTION DETAIL SCALE: NTS



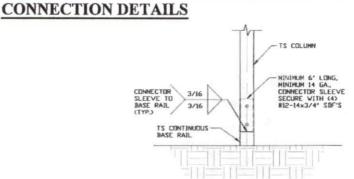
4 END COLUMN/RAFTER CONNECTION DETAIL SCALE: NTS



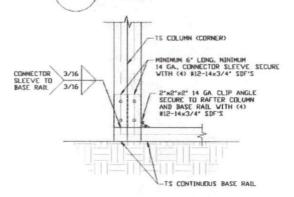
5B END COLUMN/BASE RAIL CONNECTION DETAIL



COLUMN OR WINDOW RAIL
TO POST CONNECTION DETAIL
SCALE: NTS



3B POST/BASE RAIL CONNECTION DETAIL SCALE: NTS



5A COLUMN/BASE RAIL CONNECTION DETAIL

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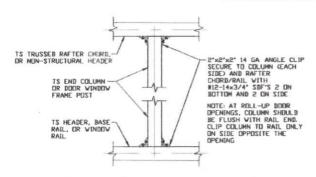
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	CHECKED BY: PH	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
-	PROJECT NGR: VSM	DATE: 7-2-20	SCALE: NTS	JOB N	18315\$/19179\$/ (D 20176\$		
	CLIENTI NC CARPURTS	SHT. 9	DVG. NO SK	-3	REVJ 2		

CONNECTION DETAILS POST/BOSE RAIL END COLUMN/BAŠE RAIL CERNECIJOM DETAIL MOORE AND ASSOCIATES A MERICHARD CONSULTING AND ave No SK-3. Revu e SHT. 9

CONNECTION DETAILS



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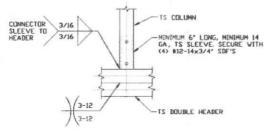
75 DOUBLE HEADER

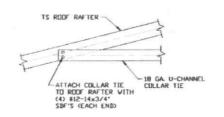
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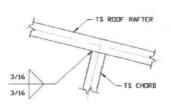
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE, NTS

8 DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS



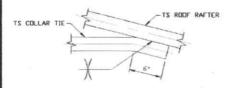




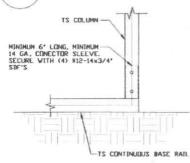
9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

11 RAFTER TO CHORD CONNECTION DETAIL
SCALE NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



13 COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

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_	PROJECT HGR: VSH	DATE: 7-2-20	SCALE: NTS	T	18315\$/19179\$/
	CLIENT: NC CARPERTS	SHT. 10	DVG. ND. SK	-3	REVJ 2

COMMITTION DESCRIPTION

8 CONNECTION DETAILS

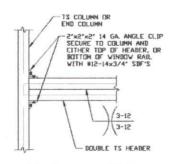
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COLUMNIABASE RAIL

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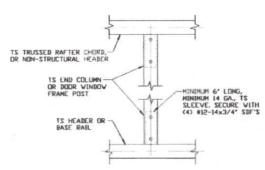
CONNECTION DETAILS



DOUBLE HEADER TO COLUMN CONNECTION DETAIL

SCALE: NTS

14



COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS

15

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MOORE AND ASSOCIATES	DRAWN BY: JG		309 S. DEPOT	

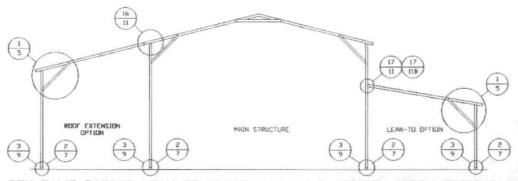
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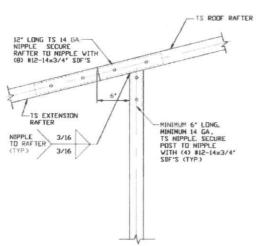
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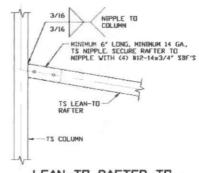
BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS
MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0'.
MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 16'-0'.



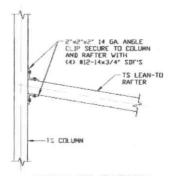


LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS & 12'-0'

ROOF EXTENSION RAFTER/CORNER POST DETAIL FOR WIDTHS ≤ 12'-0"

16 SCALE NTS

17B



LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS < 12'-0'
SCALE: NTS

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100000	DRAWN BY: JG	NC CA	ARPORTS AND 309 S. DEPOT		
0.00	CHECKED BY: PH		LOT MOUNTA 16'-0" ENCLOS		
	PROJECT MGR: VSM	DATE: 7-2-20	SCALE: NTS	JOB	18315\$/19179\$/ ND: 20176\$
	CLIENT: NC CARPORTS	SHT. 11	DVG. ND SK	-3	REV. 2

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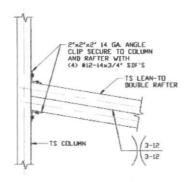
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BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER
POST CONNECTION DETAIL FOR
WIDTHS 12'-0" < TO ≤ 16'-0"

SCALE: NTS

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NIPPLE TO COLUMN

MINIMUM 6' LONG, MINIMUM 14 GA, TS MIPPLE SECURE RAFTER TO NIPPLE VITH (4) B12-14x3/4' SDF'S

TS LEAN-TO DOUBLE RAFTER

TS COLUMN

3-12

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0' < TO ≤ 16'-0'

17D SCALE NT

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PROJECT MGR: VSM	DATE: 7-2-20	SCALE: NTS				
CLIENT: NC CARPERTS	SHT. 11A	DWG. ND: SK	-3	REV. 2		

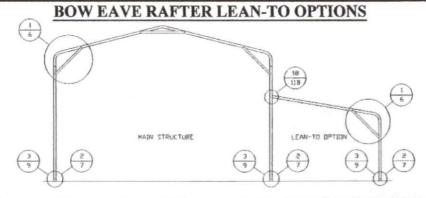
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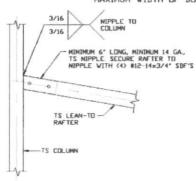
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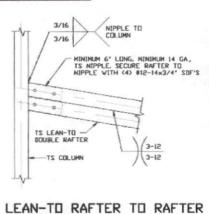


TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS MAXIMUM WIDTH OF SINGLE MEMBER LEAN-TO OPTION IS 12'-0'. MAXIMUM WIDTH OF DOUBLE MEMBER LEAN-TO OPTION IS 16'-0'



2*x2*x2* 14 GA ANGLE
CLIP SEQURE TO COLUMN
AND RATER VITH
(4) #12-14x3/4* SDF'S
TS LEAN-TO
RAFTER
TS COLUMN



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS & 12'-0'

LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS & 12'-0'
SCALE: NTS

POST CONNECTION DETAIL FOR WIDTHS

18C STALE, NTS

2'x2'x2' 14 GA. ANGLE
CLIP SECURE TD COLUMN
AND RATTER VITH
(4) 812-14x3/4' SDF'S

TS LEAN-TD
DOUBLE RAFTER

TS COLUMN

3-12
3-12

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS

18D 12'-0" < T□ ≤ 16'-0"

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	CHECKED BY: PH	30'-0"x	16'-0" ENCLOS	SEDST	RUCTURE		
_	PROJECT HGR: VSM	DATE: 7-2-20	SCALE: NTS	JOB	18315S/19179S/ ND 20176S		
	CLIENTI NC CARPURTS	SHT. 11B	DVG. ND SK	-3	REV. 2		

BOW EAVE RAFTER LEAN-TO-OPTIONS

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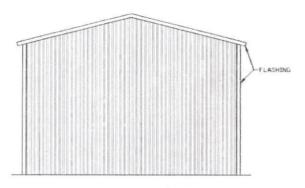
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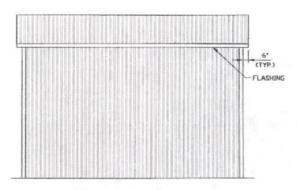
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



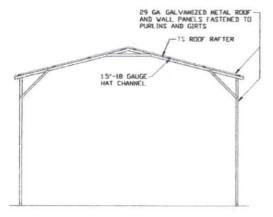
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



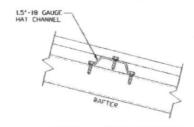
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS



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

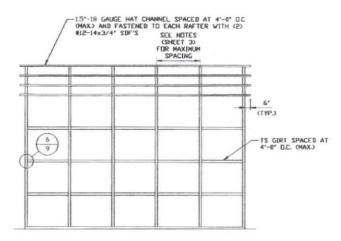
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PROJECT MGR: VSM	DATE: 7-2-20	SCALE: NTS	JOB	18315\$/19179\$/ ND 20176\$
CHECKED BY: PH		LOT MOUNTA 16'-0" ENCLOS		
DRAWN BY: JG		309 S. DEPOT	STRE	ET

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