

STRUCTURAL DESIGN

ENCLOSED BUILDING

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

23 December 2019 Revision 8 M&A Project No. 16166S/17207S/17293S/18012S/18260S/19320S

Prepared for:

Eagle Carports 210 Airport Road Mount Airy, NC 27030

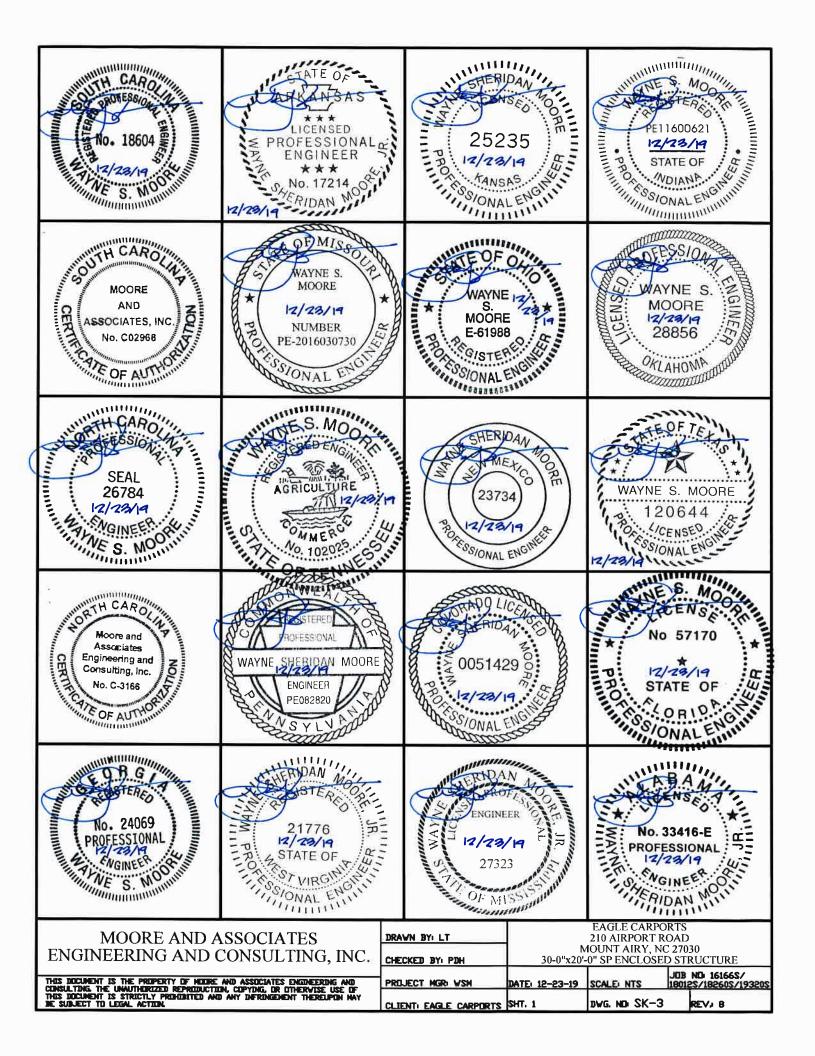
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

401 S. Main Street, Suite 200 Mount Airy, NC 27030





MAYNE S. T. MOORE *** B 30617 CENSE CONTROL OF LOUIS OF					
WAYNE SHERIDAN MOORE License No. 40931	I HAVE RESEARCHED THI AND THE LOUISIANA UNIFORM CONSTRUCT AND TO THE BEST OF MY AND BELIEF, THESE DRAV COMPLIANCE THEREW FULL RESPONSIBILITY CONTENTS OF THESE	A STATE IDN CODE KNOWLEDGE VNGS ARE IN ITH. I TAKE FOR THE E PLANS.			
A MO PAO MO P	I hereby certify that these documents were prepared approved by me, and that I a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date 6/8/20	am I			
WAYNE S. MOORE Lic. No. 051637 12/23/14					
				EAGLE CARPOI	PTC
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			EAGLE CARPOI	ore

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE \times 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC, AND 2018 IBC
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD = 1.5 PSF
B) LIVE LOAD = 12 PSF
C) GROUND SNOW LOAD = 35 PSF

NOTE: DIFFERENTIAL LOADING DUE TO SNOW DRIFTING NOT ANALYZED.

- 4 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH)
- 5 MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7- RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B/C.
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2*x2 1/2*-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS.
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10' D.C. (MAX.)
- 11. FASTENERS CONSIST OF #12-14×3/4" 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, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG IN SUITABLE SOIL CONDITIONS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I

 $S_{1} = 3.1$ $S_{2} = 3.0$ $S_{2} = 3.0$ $S_{3} = 3.0$ $S_{2} = 3.0$ $S_{3} = 3.0$

S_{Di}= 1:258 g

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CHECKED BY: PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE		
PREJECT MGR: WSM	DATE: 12-23-19		JDB ND: 16166S/ 18012S/18260S/19320
CLIENT: EAGLE CARPORTS	SHT. 3	DWG. ND: SK-3	REV. 8

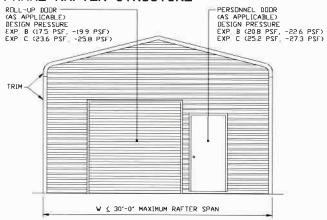
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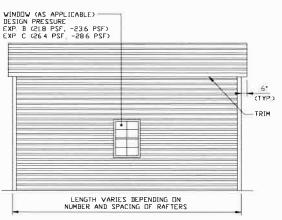
BOX EAVE FRAME RAFTER STRUCTURE ROLL-UP DODR (AS APPLICABLE) DESIGN PRESSURE EXP B (17.5 PSF, -19.9 PSF) EXP C (23.6 PSF, -25.8 PSF) PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE EXP B (208 PSF, -226 PSF) EXP C (252 PSF, -273 PSF) TRIM

₩ < 30'-0" MAXIMUM RAFTER SPAN TYPICAL END ELEVATION

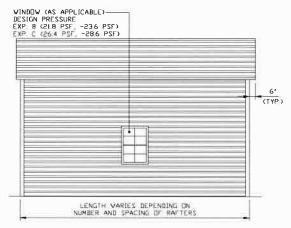
BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION SCALE: NTS



TYPICAL SIDE ELEVATION



TYPICAL SIDE ELEVATION

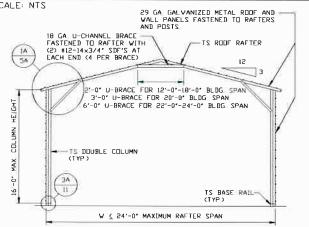
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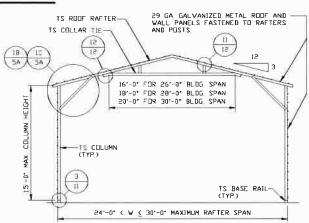
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l	PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS	JOB ND 16166S/ 18012S/18260S/19320S	
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	DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030			

29 GA GALVANIZED METAL RODF AND VALL PANELS FASTENED TO RAFTERS AND POSTS 18 GA U-CHANNEL BRACE FASTENED TO RAFTER STAND POSTS 18 GA U-CHANNEL BRACE FOR 12'-0'-18'-0' BLDG SPAN 19 10' U-BRACE FOR 12'-0'-18'-0' BLDG SPAN 3'-0' U-BRACE FOR 22'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN TS COLUMN (TYP) 15 BASE RAIL (TYP) V \(\) 24'-0' MAXIMUM RAFTER SPAN

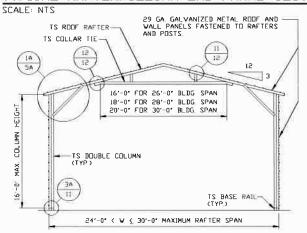
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



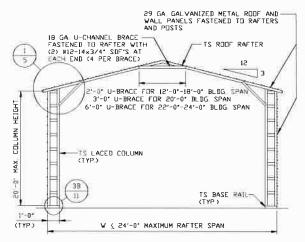
TYPICAL RAFTER/COLUMN END FRAME SECTION

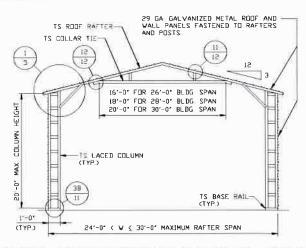
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DRAWN BY: LT 210 AIRPORT ROAD	EAGLE CARPORTS 210 AIRPORT ROAD			

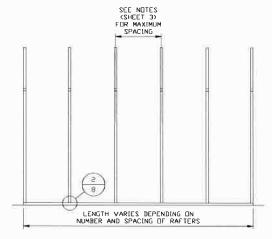
EXPOSURE B





TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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PROJECT MGR: VSM	DATE: 12-23-19		22/182602/193202	
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	MOUNT AIRY, NC 27030			
DRAWN BY: LT	210 AIRPORT ROAD			
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EXPOSURE C 29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS. 18 GA. U-CHANNEL BRACE FASTENED TO RAFTER WITH (2) #12-14X3/4" SDF'S AT EACH END (4 PER BRACE) TS ROOF RAFTER 1F \ 15 50 \ 50 12 3 3'-0' U-BRACE FOR 12'-0'-18'-0' BLDG SPAN 6'-0' U-BRACE FOR 20'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN HE JOHT COLUMN TS COLUMN MAX -0 $\binom{3}{11}$ TS BASE RAIL W ≤ 24'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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

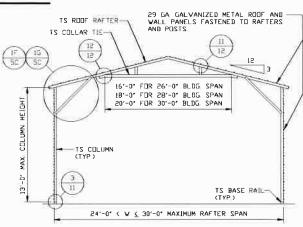
18 GA U-CHANNEL BRACE
FASTENED TO RAFTER VITH
(2) #13-1433/4' SDF'S AT
EACH END (4 PER BRACE)

2'-0' U-BRACE FOR 12'-0'-18'-0' BLDG SPAN
3'-0' U-BRACE FOR 22'-0' BLDG SPAN
6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN
15 DOUBLE COLUMN
(TYP.)

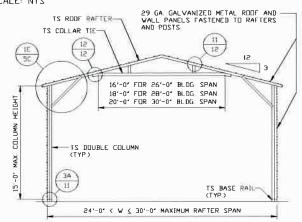
15 DOUBLE COLUMN
(TYP.)

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(TYP.)

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



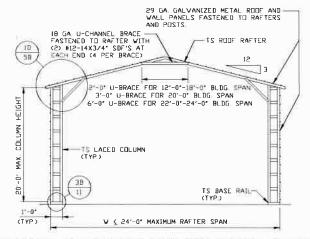
TYPICAL RAFTER/COLUMN END FRAME SECTION

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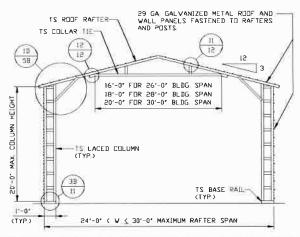
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PROJECT MGR: WSM	DATE: 12-23-19	SCALE: NTS	JUB ND 16166S/ 18012S/18260S/19320S
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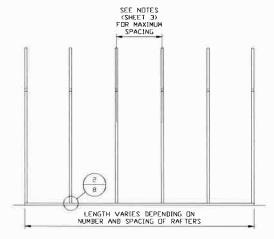
EXPOSURE C



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



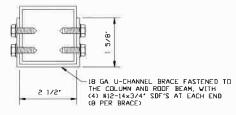
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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	DRAWN BY: LT	210 AIRPORT RO IOUNT AIRY, NC				
			EAGLE CARPOR	TS		

EXPOSURE B TS ROOF RAFTER-CONNECTOR 3/16 SLEEVE TO 3/16 RAFTER 3/16 SECURE WITH (4) #12-14×3/4" SDF'S (EACH END) MINIMUM 6' LDNG, MINIMUM 14 GA, CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4' SDF'S I-B--18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN



BRACE SECTION SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO ≤ 20'-0' SCALE: NTS

TS LACED COLUMN

3/16

MADHO 2T-

- B - L

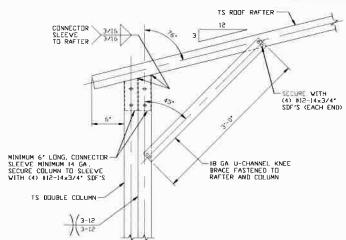
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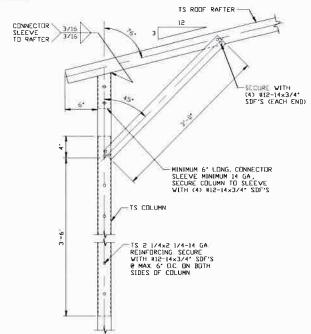
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	PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS		25/182605/193205
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EXPOSURE B

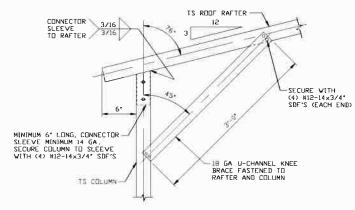


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO < 16'-0" 1A

SCALE: NTS

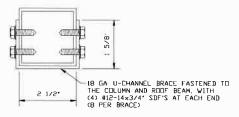


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 15'-0" 1B SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0'

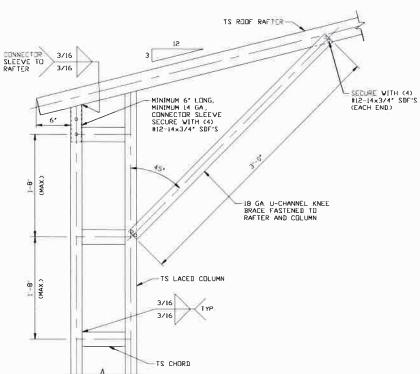
1C SCALE: NTS

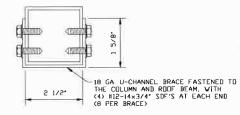


BRACE SECTION

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EXPOSURE C





BRACE SECTION SCALE: NTS

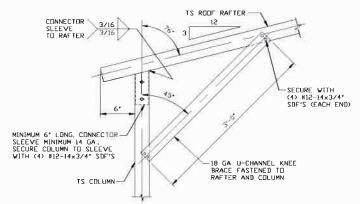
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0' < TO ≤ 20'-0' 1D SCALE: NTS

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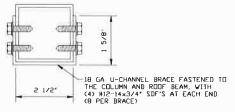
DAD 27030 STRUCTURE JUB ND: 16166\$/ 18012\$/18260\$/19320\$ REV. 8 CLIENT: EAGLE CARPORTS SHT. 5B

EXPOSURE C TS ROOF RAFTER CONNECTOR 3/16 SLEEVE 3/16 TO RAFTER 3/16 SECURE WITH (4) #12-14×3/4' SDF'S (EACH END) MINIMUM 6' LONG, CONNECTOR SLEEVE MINIMUM 14 GA., SECURE COLUMN TO SLEEVE WITH (4) #12-14×3/4' SDF'S -10 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN TS DOUBLE COLUMN-3-12

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < T□ ≤ 15'-0" 1E SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 9'-0" 1G SCALE: NTS



BRACE SECTION SCALE: NTS

CONNECTOR 3/16 SLEEVE 3/16 TO RAFTER 3/16	\$. 3
	SECURE WITH (4) #12-14x3/4*
6'	SDF'S (EACH END)
, T	X
1	MINIMUM 6' LONG, CONNECTOR
	SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (4) #12-14×3/4" SDF'S
	TS COLUMN
3-6.	TS 2 1/4×2 1/4-14 GA
	REINFORCING SECURE VITH H12-14x3/4' SDF'S e MAX 6' DC. DN BOTH SIDES OF COLUMN
	BOX EAVE RAFTER COLUMN

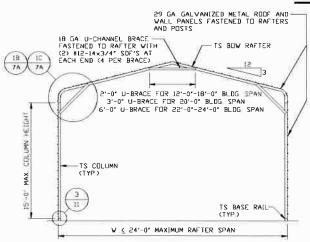
TS ROOF RAFTER-

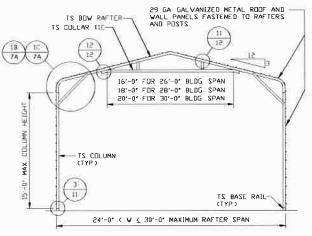
12

CONNECTION DETAIL FOR HEIGHTS 9'-0" < T□ <u><</u> 13'-0"

ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30-0"x20'-		
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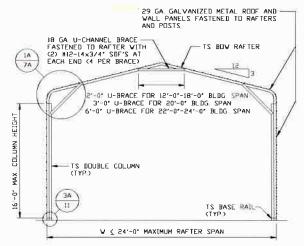




TYPICAL RAFTER/COLUMN END FRAME SECTION

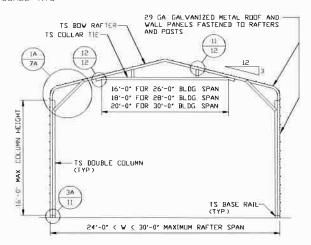
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

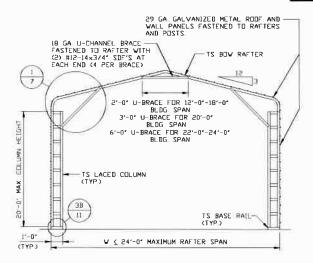
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TYPICAL RAFTER/COLUMN END FRAME SECTION

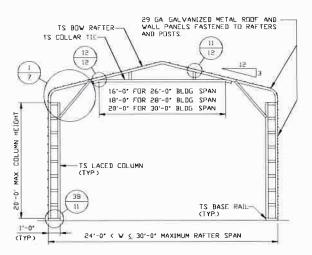
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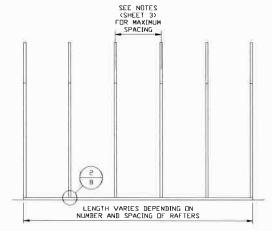
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

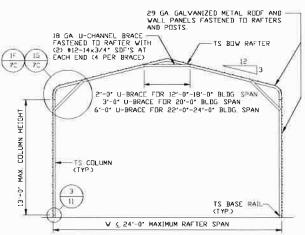


TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

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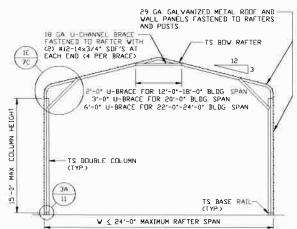


29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS TS BOW RAFTER TS COLLAR TIE-12 (IF) (IG) 15 13]3 16'-0" FOR 26'-0" BLDG SPAN 18'-0" FOR 28'-0" BLDG SPAN 20'-0" FOR 30'-0" BLDG SPAN HE1GHT COLUMN TS COLUMN MAX (3) (1) 24'-0" (W & 30'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

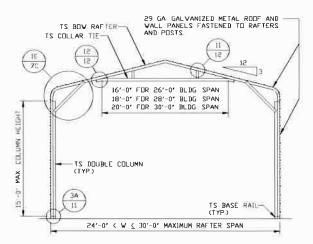
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

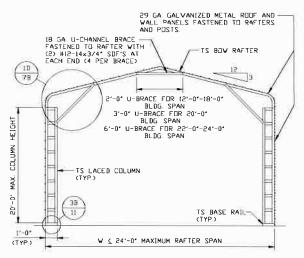
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

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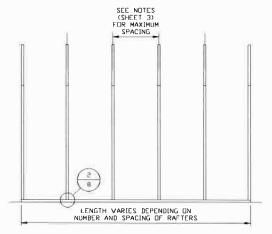
EXPOSURE C



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS TS BOW RAFTER-TS COLLAR TIE-12 11 10 79 12 16'-0" FOR 26'-0" BLDG SPAN 18'-0" FOR 28'-0" BLDG SPAN 20'-0" FOR 30'-0" BLDG SPAN HEIGHT CDLUMN TS LACED COLUMN AAX 20.-0. 3B 11 LIAN BASE RAIL 24'-0 < V & 30'-0" MANIMAR TER SPAN

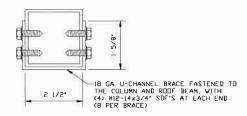
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

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EXPOSURE B TS BOW RAFTER SECURE WITH (4) #12-14×3/4° SDF'S (EACH END) MINIMUM 7' LONG, MINIMUM 14 GA, CONNECTOR SLEEVE SECURE WITH (8) #12-14x3/4' SDF'S TS CHORD -18 GA, U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN 1'-8' TS LACED COLUMN 3/16 TYP 3/16



BRACE SECTION SCALE: NTS

BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0'

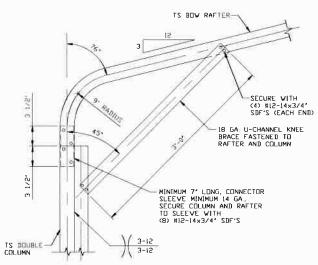
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ENGINEERING AND CONSULTING, INC.

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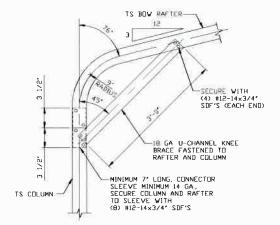
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	PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS		ND: 161665/ 25/182605/193205
÷	CHECKED BY: PDH		10UNT AIRY, NO 0" SP ENCLOSE		
	DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD			

EXPOSURE B



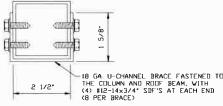
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO ≤ 16'-0" 1A



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 12'-0'

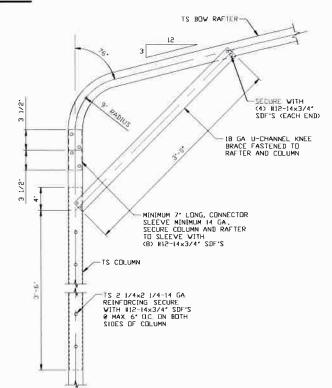
SCALE: NTS

1C



BRACE SECTION

SCALE: NTS

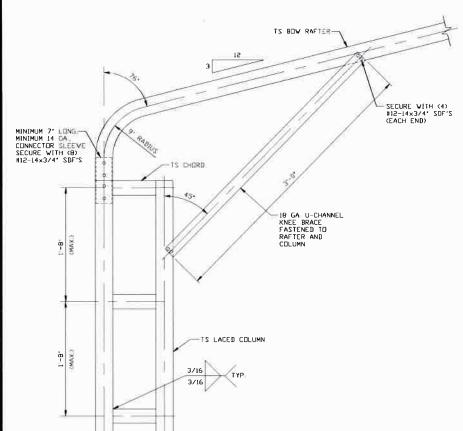


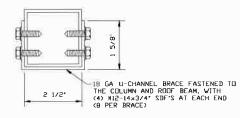
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 15'-0' 1B

	1 5/8′					
5 1/5,	THE CO	U-CHANNE LUMN AND -14×3/4" BRACE)	ROOF	BEAM,	V]TH	

MOORE AND ASSOCIATES	DRAWN BY: LT		EAGLE CARPOR 210 AIRPORT RO OUNT AIRY, NC	AD
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THE DISCHENT TO STRICT Y PROBURTED AND ANY DEPRINGMENT THERETON MAY	CLIENT: EAGLE CARPORTS	SHT. 7A	DVG. NO SK-3	REV. 8

EXPOSURE C





BRACE SECTION SCALE: NTS

1D BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 15'-0' < TO \(\lambda \) 20'-0'

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PROJECT M							
CHECKED B	GR: VSH	DATE: 12-23-19	SCALE: NTS	JUB ND: 16166S/ 18012S/18260S/19320			
	Yı PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE					
DRAWN BY	LT	EAGLE CARPORTS 210 AIRPORT ROAD					

EXPOSURE C TS BOW RAFTER SECURE WITH (4) #12-14x3/4" SDF'S (EACH END) IB GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN -MINIMUM 7" LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN AND RAFTER TO SLEEVE WITH (B) #12-14x3/4" SDF'S

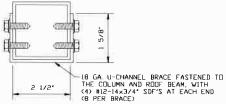
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0' < TO < 15'-0' 1E SCALE: NTS

SECURE WITH

(4) #12-14×3/4"

SDF'S (EACH END) -18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN -MINIMUM 7" LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN AND RAFTER TO SLEEVE WITH (8) #12-14x3/4" SDF'S TS COLUMN

> BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 9'-0" 1G SCALE: NTS



BRACE SECTION SCALE: NTS

	TS BOW RAFTER
	12
	3, 3
1/5	SECURE WITH (4) #12-14x3/4*
71	(4) #12-(4×3/4" SDF'S (EACH END)
	-H × /// ×
1	18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN
•	
a	111 X/ /
3 1/2	
ભા ∗¦	
1	MINIMUM 7' LONG, CONNECTOR SLEEVE MINIMUM 14 GA,
	SECURE COLUMN AND RAFTER TO SLEEVE WITH
	(8) #12-14×3/4" SDF'S
	TS COLUMN
	1 CBLOWN
φ	141
 1	TS 2 1/4×2 1/4-14 GA REINFORCING SECURE
	WITH #12-14×3/4" SDF'S
	@ MAX 6' DC ON BOTH SIDES OF COLUMN
	Fr
	•
1	

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0' < T□ < 13'-0' SCALE: NTS

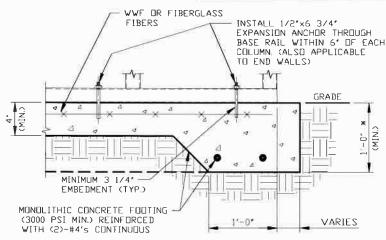
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	PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS		ND 16166S/ 25/18260S/19320S
٠,	CHECKED BY: PDH	30-0"x20'-	0" SP ENCLOSEI	Trans.	
٦		210 AIRPORT ROAD MOUNT AIRY, NC 27030			
	DRAWN BY: LT				

EAGLE CARPORTS

BASE RAIL ANCHORAGE OPTIONS



2A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4"

* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

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

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

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING

BARS SHALL BE PER ACI-318:

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

REINFORCING STEEL

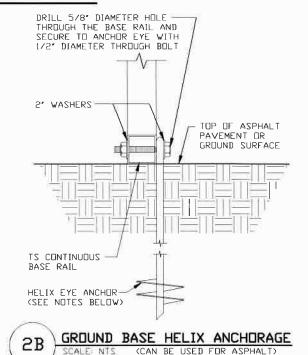
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

- 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:

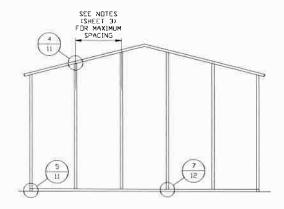
- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2, FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 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 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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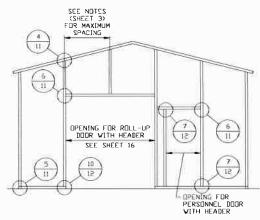
	CLIENT: EAGLE CARPORTS	sнт. ө	DWG. ND SK-3		REV₁ 8
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		JUB NO 16166S/			
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		1 N	OUNT AIRY, N	C 270	30
	DRAWN BY: LT	210 AIRPORT ROAD			
			EAGLE CARPO	JK 12	

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



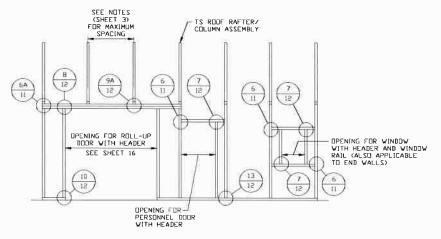
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NITS

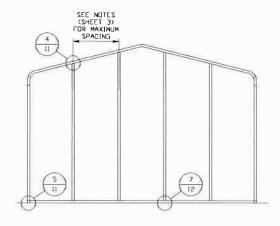


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

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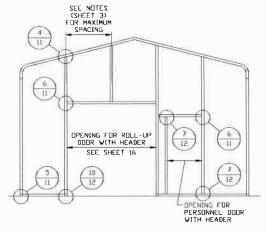
	CLIENT: EAGLE CARPORTS	SHT. 9	DVG. ND: SK-3	REV. 8	
	PROJECT MGR: VSM	DATE: 12-23-19		125/182605/193205	
			DL.	B NO: 16166S/	
	CHECKED BY: PDH	30-0"x20'-0" SP ENCLOSED STRUCTURE			
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Ĩ	DRAWN BY: LT	210 AIRPORT ROAD			
			EAGLE CARPORT	ა	

BOW RAFTER END WALL AND SIDE WALL OPENINGS



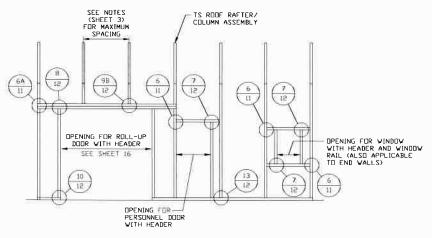
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



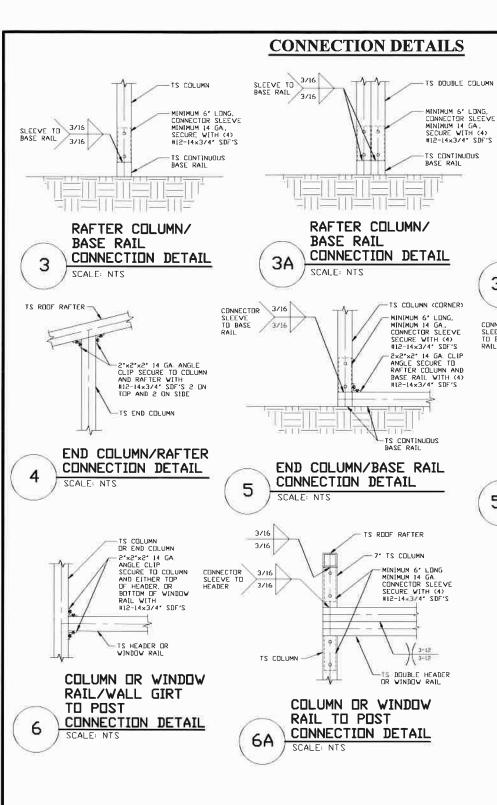
TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

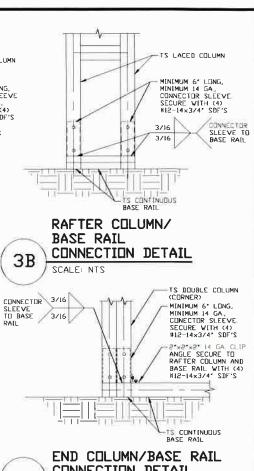
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TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

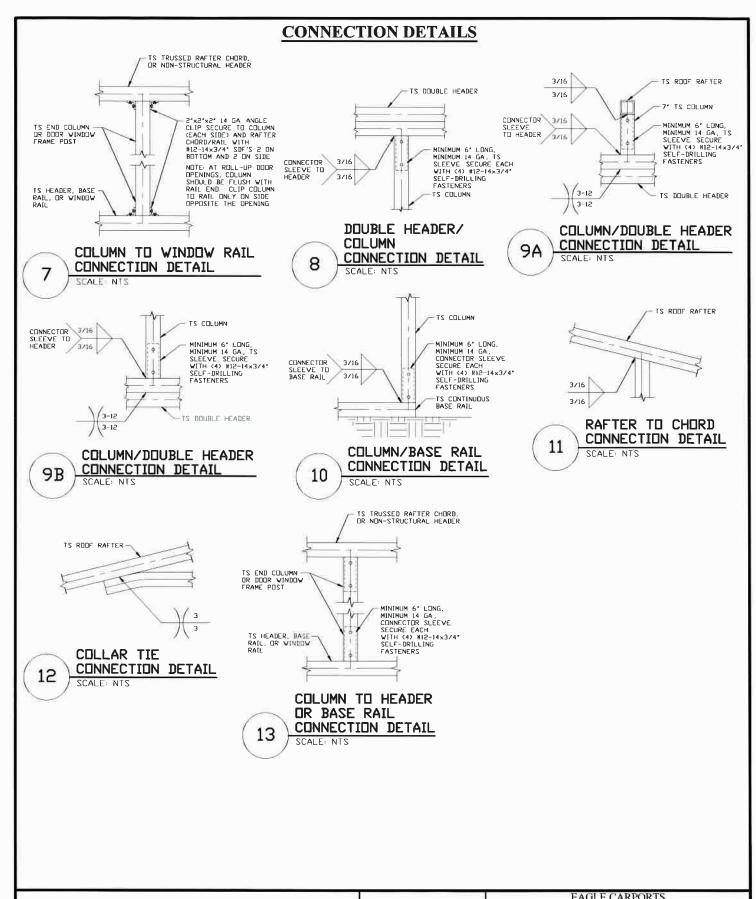
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, NO -0" SP ENCLOSE	
MOORE AND ASSOCIATES	DRAWN BY: LT	1 ,	EAGLE CARPO 210 AIRPORT R	OAD

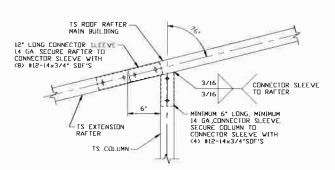


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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		1OUNT AIRY, NC :0" SP ENCLOSEI	
MOORE AND ASSOCIATES	DRAWN BY: LT	1 .	210 AIRPORT RO	DAD

BOX EAVE RAFTER LEAN-TO OPTIONS 14 13 15 13 16 13 RDDF EXTENSION OPTION MAIN STRUCTURE LEAN-TD OPTION

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

SCALE: NTS
MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0'.
MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0'

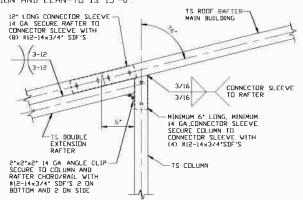


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3

2 B

SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
RAFTER SPANS \(\frac{12'-0'}{\text{SCALE: NTS}}\)



(3)

8

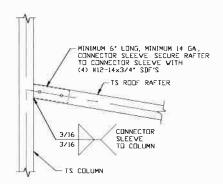
SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS 12'-0' < TO \(\) 15'-0'

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	CLIENT: EAGLE CAPPOINTS	SHT. 13	DVG. NO. SK-3	REV. B
	PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS	180152\185602\133502
				JOB ND: 16166S/
-12	CHECKED BY: PDH	30-0"x20'-0" SP ENCLOSED STRUCTURE		
,		l N	OUNT AIRY, NO	27030
	DRAWN BY: LT	1	OAD	
			EAGLE CARPO	RTS

BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 12'-0' SCALE: NTS

15

2'x2'X2' 14 GA ANGLE CLIP SECURE
TO COLUMN AND RATTER CHORD/RAIL
VITH (4) #12-14x3/4' SDF'S

TS DOUBLE ROOF RAFTER

TS COLUMN

LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO \(\) 15'-0"

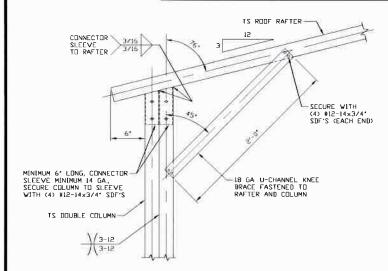
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	EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE			
DRAWN BY: LT				
CHECKED BY: PDH				
PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS		ND 16166S/ 25/18260S/19320S
CLIENTI EAGLE CARPORTS	SHT. 13A	DAG" NO 2K-3		REV. 8

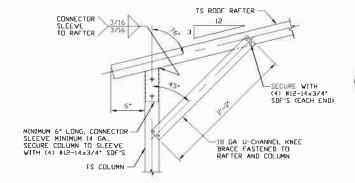
BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE B

CUNNECTOR 3/16
SLEEVE 3/16
TD RAFTER 3/16 CONNECTOR



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0' < TO < 16'-0' 16

HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 15'-0" 16A

TS 2 1/4×2 1/4-14 GA
REINFORCING SECURE
WITH #12-14×3/4* SDF'S
P MAX 10* OC ON BOTH
SIDES OF COLUMN

TS ROOF RAFTER

MINIMUM 6" LONG, CONNECTOR SLEEVE MINIMUM 14 GA., SECURE COLUMN TO SLEEVE WITH (4) #12-14x3/4" SDF'S

SECURE WITH
(4) #12-14x3/4'
SDF'S (EACH END)

18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

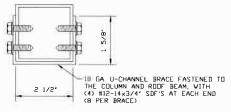
SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING).

TS COLUMN

16B

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 14'-0"

SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)

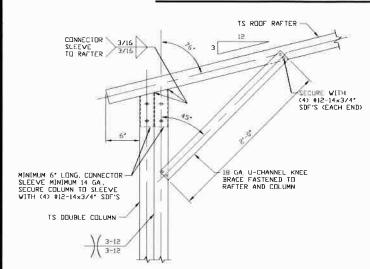


BRACE SECTION

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ENCINEEDING AND CONGULTING INC	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE		
MOORE AND ASSOCIATES	DRAWN BY: LT		EAGLE CARPO 210 AIRPORT R	

BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C

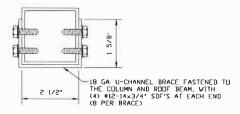
16D



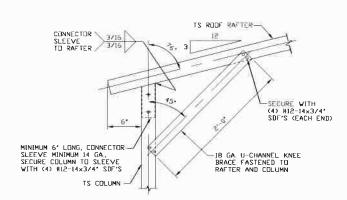
BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 13'-0' < TO < 16'-0'

SCALE: NTS HDRSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING):



BRACE SECTION SCALE: NTS

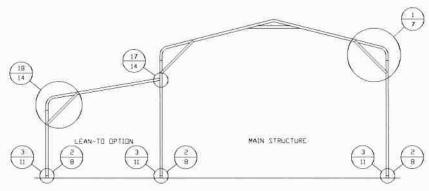


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 13'-0'

SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING).

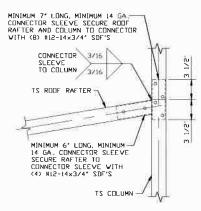
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE		
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BOW RAFTER LEAN-TO OPTION



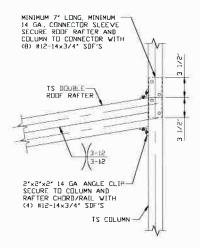
TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0'. MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0'.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS \(\) 12'-0'

17 SCALE: NTS



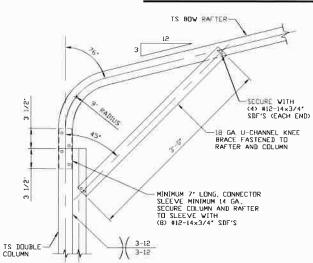
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO < 15'-0"

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CLIENT: EAGLE CARPORTS	SHT. 14	DWG. NO SK-3	REV. 8	
PROJECT MGR: VSM	DATE: 12-23-19		JOB NO: 16166S/ 18012S/18260S/19320S	
CHECKED BY PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE			
DRAWN BY: LT	210 AIRPORT ROAD			

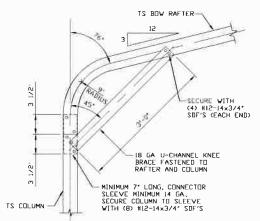
BOW RAFTER LEAN-TO OPTION - EXPOSURE B



BOW EAVE RAFTER COLUMN CONNECTION

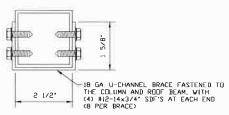
DETAIL FOR HEIGHTS 15'-0' < TO < 16'-0'

SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING).



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 14'-0'

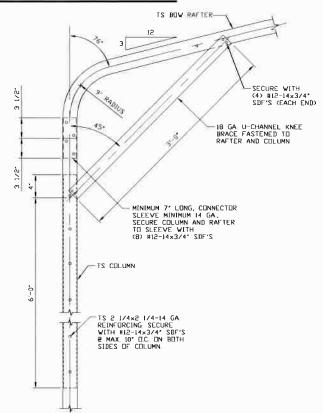
SCALE: NTS (HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



BRACE SECTION

SCALE: NTS

18B



BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 14'-0' < TO < 15'-0'

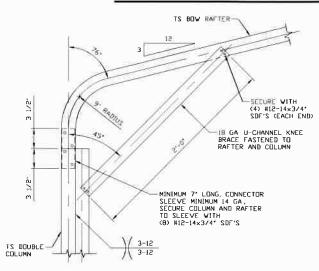
SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)

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	CLIENT: EAGLE CARPORTS	SHT. 14A	DVG ND SK-3	REV. 8	
	PROJECT MGR: VSM	DATE: 12-23-19	SCALE: NTS	JOB NO 161665/ 180125/182605/193205	
1	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE			
	DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD			

BOW RAFTER LEAN-TO OPTION - EXPOSURE C



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)

18C

TS BOV RAFTER

12

SECURE WITH

(4) B12-14x3/4'
SDF'S (EACH END)

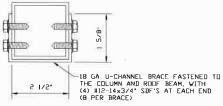
18 GA U-CHANNEL KNEE
BRACE FASTENED TO
RAFTER AND COLUMN

MINIMUM 7' LONG, CONNECTOR
SLEEVE MINIMUM 14 GA,
SECURE COLUMN TO SLEEVE
WITH (8) B12-14x3/4' SDF'S

BOW EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS <u>(13'-0"</u>

SCALE: NTS
HURSE BARN OPTION (REQUIRES A LEAN-TO
ON BOTH SIDES OF THE MAIN BUILDING)



BRACE SECTION
SCALE: NTS

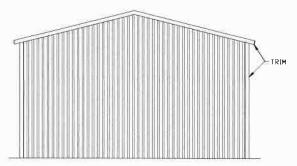
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	CLIENT: EAGLE CARPORTS	SHT. 14B	DVG ND SK-3	REV. 8	
	PROJECT HGR: VSH	DATE: 12-23-19		B ND 16166S/ 12S/18260S/19320S	
.	CHECKED BY: PDH		IOUNT AIRY, NC 27 0" SP ENCLOSED S		
	DRAWN BY: LT	210 AIRPORT ROAD			

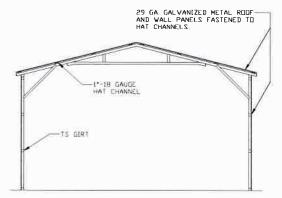
EAGLECADDODTS

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



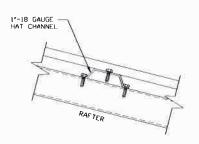
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

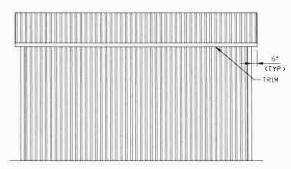
SCALE NTS



PANEL ATTACHMENT

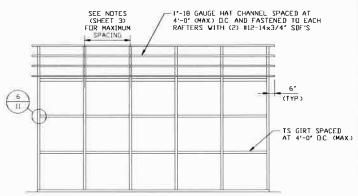
(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

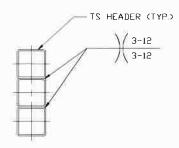
SCALE: NTS

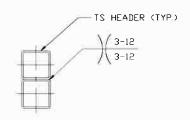
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CLIENT: EAGLE CARPORTS	SHT. 15	DVG. ND SK-3		REV₁ 8
PROJECT MGR: VSM	DATE: 12-23-19			ND: 16166S/ S/18260S/19320S
CHECKED BY: PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE			
DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD			

SIDE WALL HEADER OPTIONS



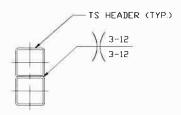


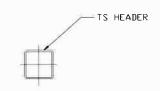
HEADER DETAIL FOR 12'-0' < LENGTHS \(\leq \) 16'-0"

HEADER DETAIL FOR LENGTHS

12'-0'

END WALL HEADER OPTIONS





HEADER DETAIL FOR 14'-0' < LENGTHS <u>⟨</u> 20'-0'

SCALE: NTS

HEADER DETAIL FOR LENGTHS < 14'-0' SCALE: NTS

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	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE		
	PROJECT MGR: VSM	DATE: 12-23-19		JOB NO 16166S/ 18012S/18260S/19320S
	CLIENT: EAGLE CARPORTS	SHT. 16	DVG. NO SK-3	REV. 8