



# STRUCTURAL DESIGN

# **ENCLOSED BUILDING**

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

2 October 2020 Revision 0 M&A Project No. 20198S

Prepared for:

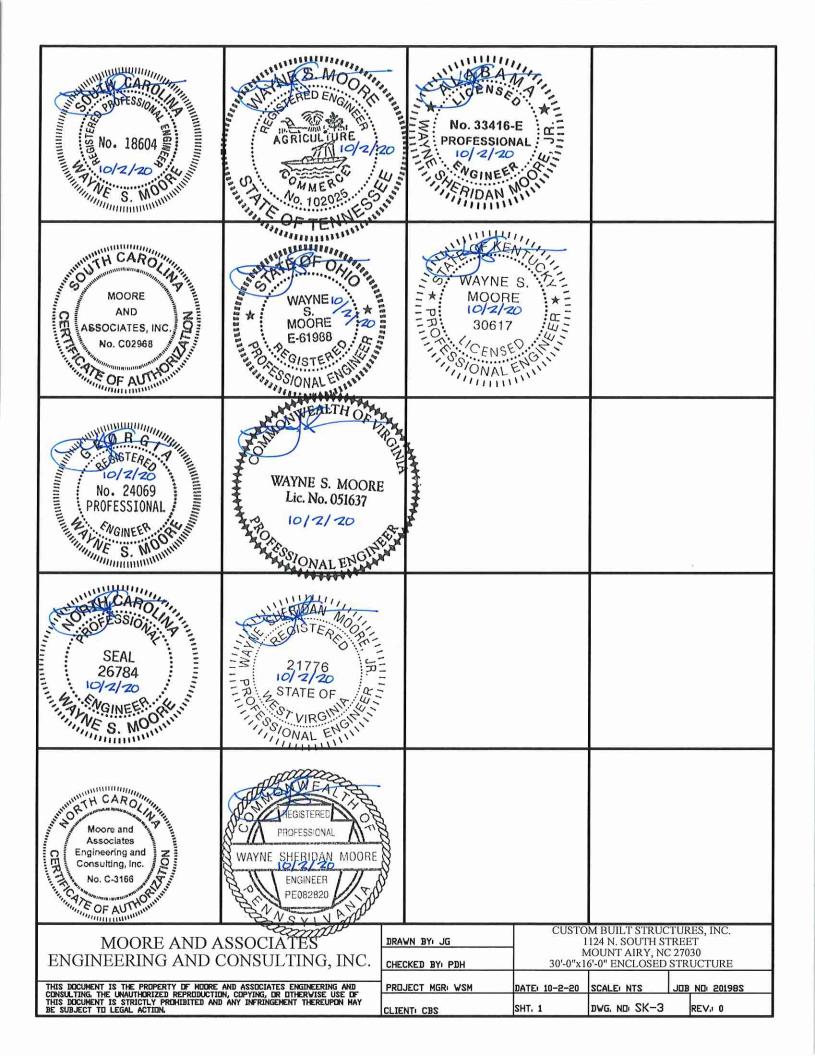
Custom Built Structures, Inc. 1124 N. South Street Mt. Airy, NC 27030

#### Prepared by:

Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

> 401 S. Main Street, Suite 200 Mt. Airy, NC 27030





# DRAWING INDEX

1	PE SEAL COVER SHEET
2	DRAWING INDEX
3	INSTALLATION NOTES AND SPECIFICATIONS
	TYPICAL SIDE AND END ELEVATIONS
5	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
5A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
6	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
6A	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
6B	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) (FOR WIND SPEEDS < 130 MPH)
6C	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) (FOR WIND SPEEDS < 130 MPH)
7	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE RAFTER)
7A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE RAFTER)
8	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER)
8A	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER)
8B	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER) (FOR WIND SPEEDS < 130 MPH)
80	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER) (FOR WIND SPEEDS < 130 MPH)
9	BASE RAIL ANCHORAGE OPTIONS
9A	BASE RAIL ANCHDRAGE OPTIONS
10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER)
11	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW EAVE RAFTER)
12	CONNECTION DETAILS
13	CONNECTION DETAILS
14	LEAN-TO OPTIONS (BOX EAVE RAFTER)
14A	LEAN-TO OPTIONS (BOX EAVE RAFTER)
15	LEAN-TO OPTIONS (BOW EAVE RAFTER)
16	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION (BOX EAVE RAFTER)
17	SIDE WALL AND END WALL HEADER OPTIONS
	1 2 3 4 5 5 5 A 6 6 A 6 B 6 C 7 7 A 8 8 A 8 B 8 C 9 9 A 10 11 12 13 14 14 A 15 16 17

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ENCONTERDING AND CONTROL TIME INC.	CHECKED BY: PDH	N	MOUNT AIRY, NO 6'-0" ENCLOSED	C 27030
MOORE AND ASSOCIATES	DRAWN BY: JG		M BUILT STRUC 124 N. SOUTH S'	

#### 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 (NCBC), 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC AND 2012 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

- = 12 PSF
- C) GROUND SNOW LOAD = 45 PSF

= 30 PSF WITH U-CHANNEL PEAK BRACE (W < 24'-0")

NOTE: UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED.

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (VIBT) < 145 MPH (NOMINAL WIND SPEED < 112 MPH),
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 6. ENDWALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). 2 1/4" × 2 1/4" 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS.
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10 INCHES.
- 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 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, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
- 12. GROUND 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 AND MAY BE USED IN SUITABLE SOILS. 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

R= 3.25

 $I_E = 1.0$ 

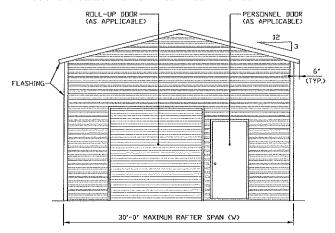
 $S_{BS} = 2.039 g$ 

V= CsW

 $S_{D1} = 1.258 g$ 

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: PDH	CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET MOUNT AIRY, NC 27030 30'-0"x16'-0" ENCLOSED STRUCTURE		REET 27030
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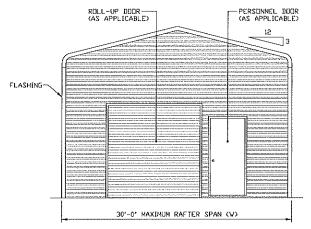
#### BOX EAVE FRAME RAFTER STRUCTURE



## TYPICAL END ELEVATION

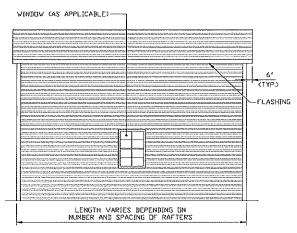
SCALE: NTS

#### BOW EAVE FRAME RAFTER STRUCTURE



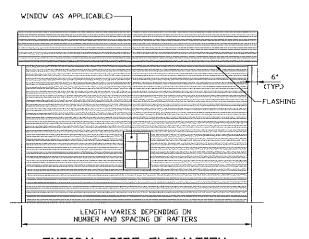
## TYPICAL END ELEVATION

SCALE: NTS



#### TYPICAL SIDE ELEVATION

SCALE: NTS



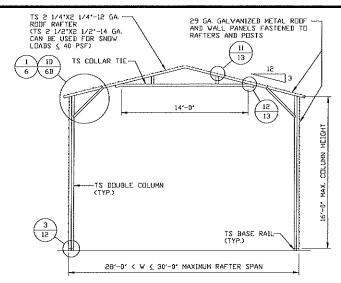
#### TYPICAL SIDE ELEVATION

SCALE: NTS

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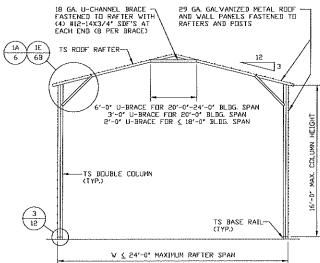
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CLIENT: CBS	SHT, 4	DWG NO SK-3	REV. 0	

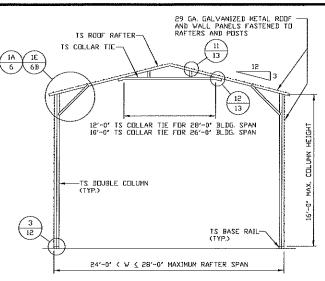


#### TYPICAL RAFTER/COLUMN FRAME SECTION

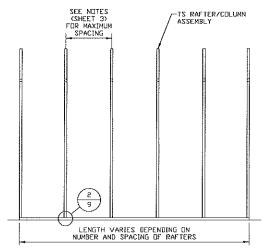
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

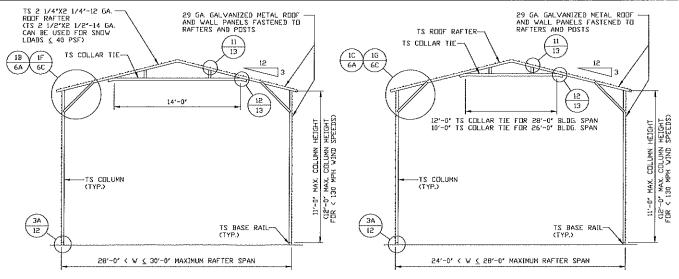


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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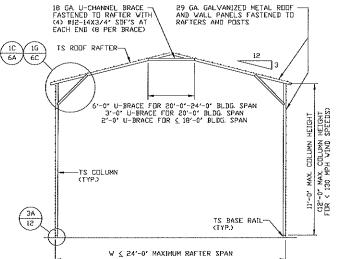
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	MOUNT AIRY, NC 27030					
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CLIENT, CDS	SHT. 5	DVG. NO SK-3	REV. 0			



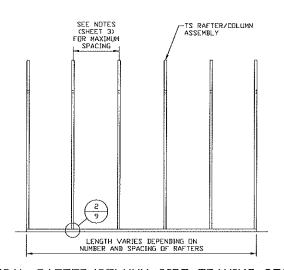
#### TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



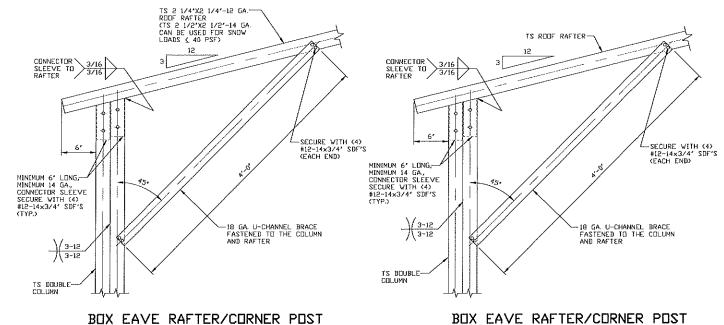
#### RAFTER/COLUMN FRAME SECTION SCALE: NTS

TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



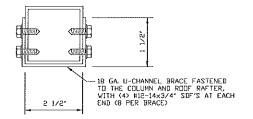
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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1 CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO < 16'-0"

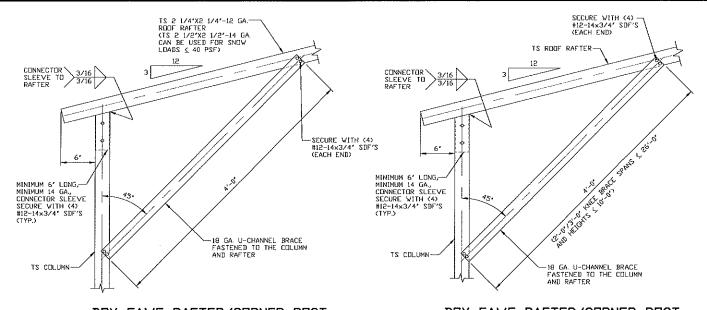
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO < 16'-0" SCALE: NTS



BRACE SECTION SCALE: NTS

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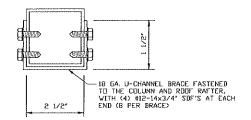
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	N	MOUNT AIRY, NC 27030			
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PREJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB NO: 20198S		
CLIENT: CBS	SHT, 6	DWG. NO: SK-3	REV.: 0		



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS < 11'-0" 1B

SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS < 11'-0" 1C SCALE: NTS



# BRACE SECTION SCALE: NTS

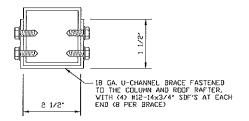
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# FOR WIND SPEEDS 15 P 1/4/XE 1/4-12 QA SODE RAFTER (15 2 1/2/XE 1/2-14 GA CAN BE USED FOR SNID LOADS (4 of PSF) 12 CONNECTOR SLEEVE TO 3/16 3 SECURE VITH (4) 12 SECURE VITH (4) 13 SECURE VITH (4) 14 SECURE VITH (4) 15 RAFTER MINIMUM 6 GA CONNECTOR SLEEVE SHIPHON 16 GA CONNECTOR SLEEVE SHIPHON 16 GA CONNECTOR SLEEVE SECURE VITH (4) 18 GA CONNECTOR SLEEVE SECURE VITH (4) SECURE VITH (4) SECURE VITH (4) SECURE VITH (4) SECU

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO < 16'-0"

SCALE: NTS

BDX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0' SCALE: NTS

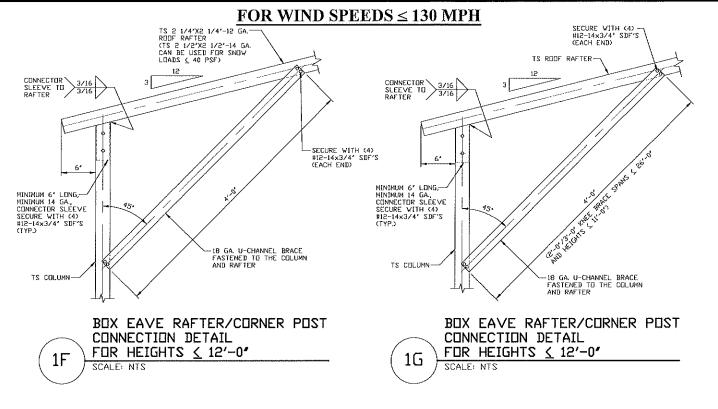


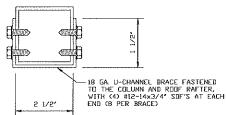
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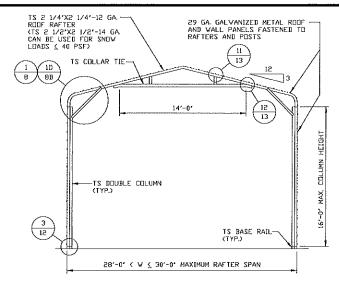




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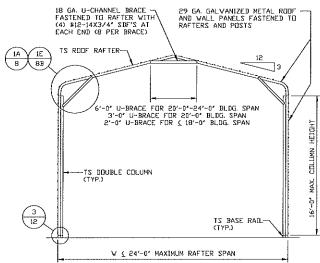
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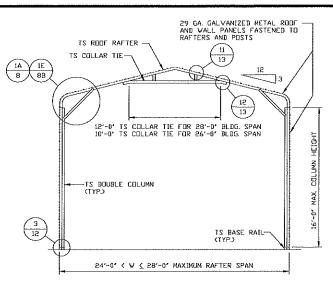


### TYPICAL RAFTER/COLUMN FRAME SECTION

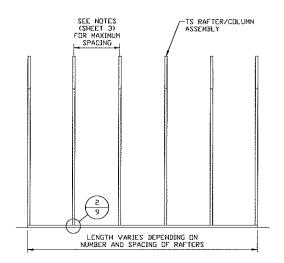
SCALE: NTS



# TYPICAL RAFTER/COLUMN FRAME SECTION



# TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

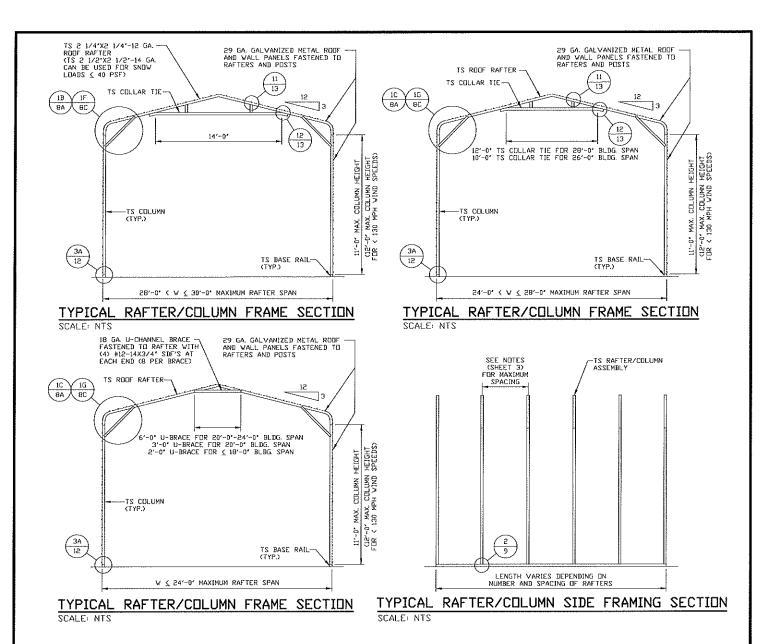


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

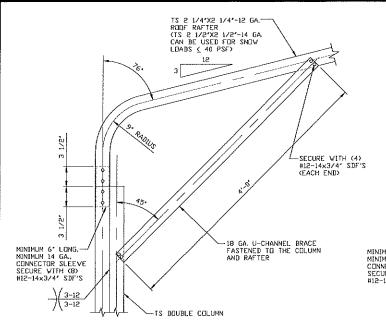
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	MOUNT AIRY, NC 27030					
CHECKED BY: PDH	30'-0"x16'-0" ENCLOSED STRUCTURE					
 PROJECT MGR: VSM	DATE: 10-2-20	SCALE: NTS	JOB	ND: 20198S		
CLIENT: CBS	SHT. 7	DVG, NO SK-3		REV. 0		



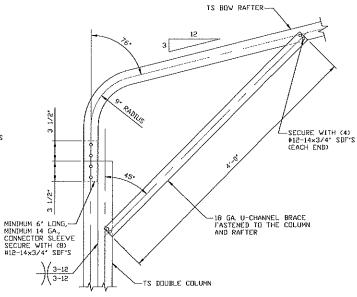
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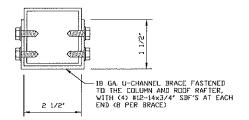
BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 11'-0" < TO < 16'-0"

SCALE: NTS



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO < 16'-0" SCALE: NTS

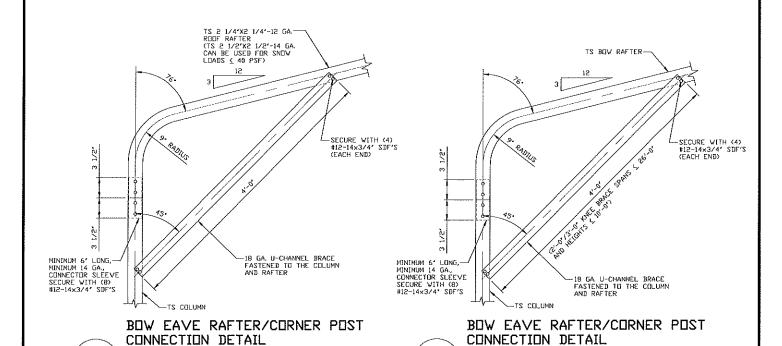


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			DVG. ND: SK-3	REV. 0			
	PROJECT MGR: VSM	DATE: 10-2-20	SCALE, NTS	28e10S ION 80L			
•	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x16'-0" ENCLOSED STRUCTURE					
	DRAWN BY: JG	CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET					



1C

7 -18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF RAFTER, WITH (4) #12-14×3/4' SDF'S AT EACH END (8 PER BRACE)

BRACE SECTION SCALE: NTS

2 1/2"

FOR HEIGHTS < 11'-0"

SCALE: NTS

1B

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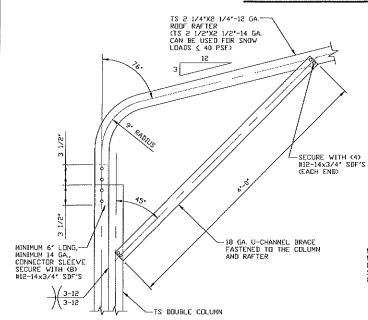
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 PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	28 ND 801985	
CLIENT: CBC	SHT, 8A	DVG. NO SK-3	REV.1 0	

FOR HEIGHTS ≤ 11'-0"

SCALE: NTS

# FOR WIND SPEEDS ≤ 130 MPH



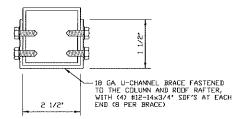
BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 16'-0" SCALE, NTS

MINIMUM 6 LONG,
MINIMUM 6 LONG,
MINIMUM 14 GAG,
MINIMUM 14 GAG

BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 12'-0' < TO < 16'-0'

SCALE: NTS



BRACE SECTION
SCALE: NTS

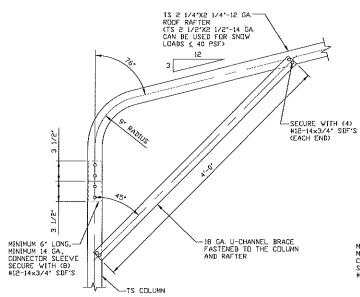
1D

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CHECKED BY: PDH	30'-0"x16'-0" ENCLOSED STRUCTURE					
DRAWN BY: JG	1124 N. SOUTH STREET MOUNT AIRY, NC 27030					
	CUSTOM BUILT STRUCTURES, INC.					

## **FOR WIND SPEEDS ≤ 130 MPH**



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS < 12'-0'

1F ) FUR HEI

SECURE WITH (4)
#12-14×3/4′ SDF'S
GEACH END)

SECURE WITH (4)
#12-14×3/4′ SDF'S
GEACH END)

SECURE WITH (4)
#12-14×3/4′ SDF'S
GEACH END)

SECURE WITH (4)
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#12-14×3/4′ SDF'S

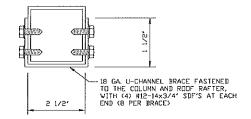
GEACH END)

SECURE WITH (4)
#12-14×3/4′ SDF'S

SECURE

TS BOW RAFTER-

1G CONNECTION DETAIL
FOR HEIGHTS & 12'-0"
SCALE: NTS

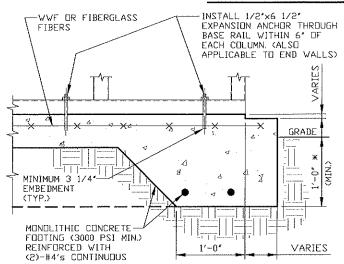


BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES	DRAWN BY: JG	CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET			
ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH	MOUNT AIRY, NC 27030 30'-0"x16'-0" ENCLOSED STRUCTUR			
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#### BASE RAIL ANCHORAGE OPTIONS





#### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4'.

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

#### 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:

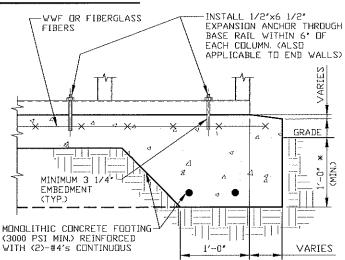
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE VELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

#### 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.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

#### HELIX ANCHOR NOTES:

- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, CDARSE GRAVEL AND CUBBLES, 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.
- 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.
- FOR LODGE 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.



2A

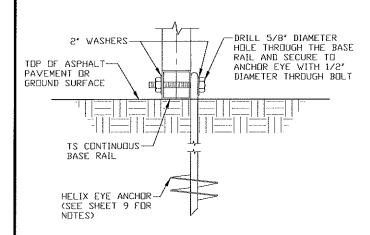
#### CONCRETE SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4".

\* COORDINATE WITH LOCAL BUILDING CODE AND/ORD REGARDING MINIMUM FROST DEPTH CLENGTH).

MOORE AND ASSOCIATES	DRAWN BY: JG	1	M BUILT STRUC 1124 N. SOUTH S	TREET
ENGINEEDING AND CONGULTING INC	CHECKED BY: PDH		MOUNT AIRY, NO 6'-0" ENCLOSED	
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# BASE RAIL ANCHORAGE OPTIONS



THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2" DIAMETER THROUGH BOLT 2 1/2"x2 1/2"x2 1/2"x1/4" ANGLE

TS CONTINUOUS ROCK/ROCK CONTAINING SOILS

S/8" x 36" (MIN.)
BARBED DRIVE ANCHOR

2C ASPHALT BASE ANCHORAGE

DRILL 5/8" DIAMETER HOLE

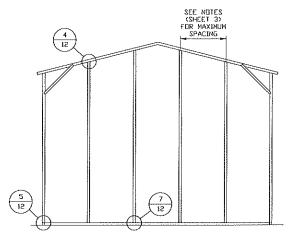
# 2B GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)
\* COURDINATE WITH LOCAL BUILDING
CODE AND/ORD REGARDING MINIMUM
FROST DEPTH (LENGTH).

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

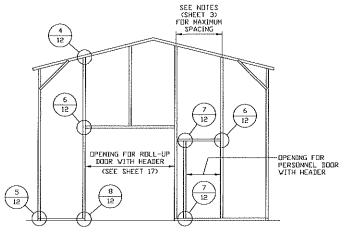
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		6'-0" ENCLOSED	
MOORE AND ASSOCIATES	DRAWN BY: JG	1	M BUILT STRUC 124 N. SOUTH S' 4OUNT AIRY, NO	TREET

# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



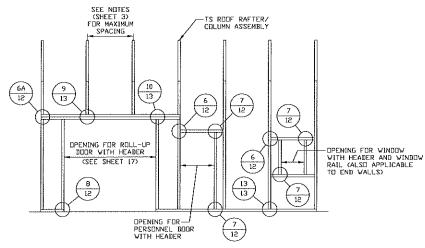
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL DPENINGS FRAMING SECTION

SCALE: NTS

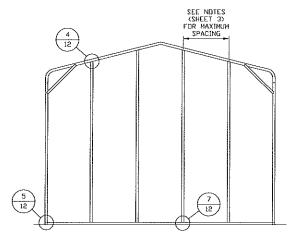


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

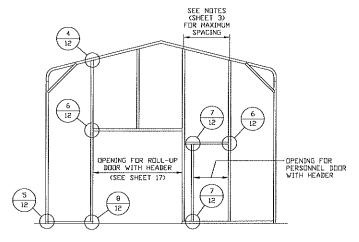
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ENIONIEEDING AND CONGULTUNIC INC	CHECKED BY: PDH		MOUNT AIRY, NO 6'-0" ENCLOSED	
MOORE AND ASSOCIATES	DRAWN BYI JG		M BUILT STRUC 124 N. SOUTH ST	

## BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



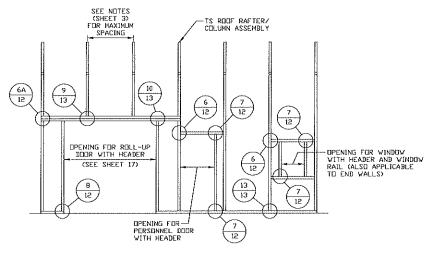
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

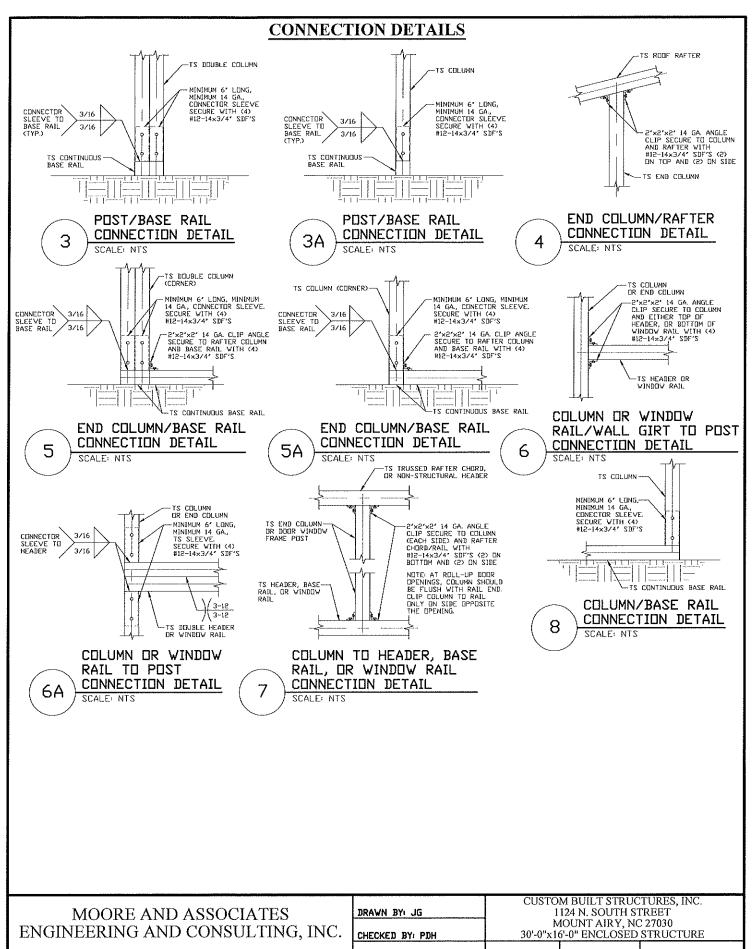
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	MOORE AND ASSOCIATES	DRAWN

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DRAWN BY: JG	1124 N. SOUTH STREET			
	MOUNT AIRY, NC 27030			
CHECKED BY: PDH	30'-0"x16'-0" ENCLOSED STRUCTURE			

 PROJECT MGR: WSM
 DATE: 10-2-20
 SCALE: NTS
 JOB NO: 20198S

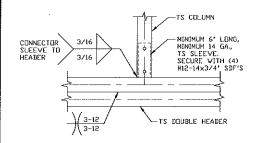
 CLIENT: CBS
 SHT. 11
 DWG: ND: SK-3
 REV.: 0

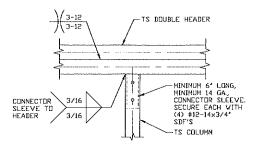


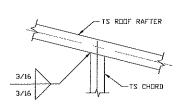
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PROJECT MGR: VSM DATE: 10-2-20 SCALE: NTS JOB NO: 20198S SHT. 12 DVG, ND: SK-3 REV. 0 CLIENT: CBS

# **CONNECTION DETAILS**





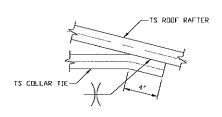


9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS

DOUBLE HEADER/COLUMN CONNECTION DETAIL

SCALE: NTS

RAFTER TO CHORD CONNECTION DETAIL
SCALE, NTS



TS TRUSSED RAFTER CHORD,
UR NON-STRUCTURAL HEADER

TS END COLUMN
OR DOOR WINDOW
FRAME POST

TS HEADER, BASE
RAIL, DR WINDOW
RAIL

12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

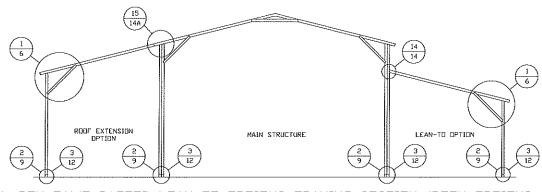
COLUMN TO HEADER
OR BASE RAIL
CONNECTION DETAIL
SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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DRAWN BY: JG	1124 N. SOUTH STREET				
	MOUNT AIRY, NC 27030				
CHECKED BY: PDH	30'-0"x1	6'-0" ENCLOSED	STR	UCTURE	
PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JDB	ND 20198S	
CLIENT: CBS	SHT, 13	DWG, NO. SK-3		REV.⊨0	

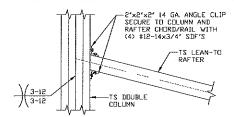
## **BOX EAVE RAFTER LEAN-TO OPTIONS**



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

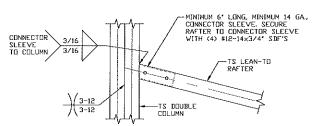
SCALE: NTS

NOTE: KNEE BRACE MUST BE 4'-0' REGARDLESS OF COLUMN HEIGHT. FOR SHARED COLUMNS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.

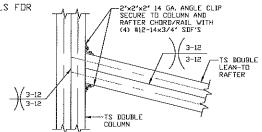


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 12'-0"

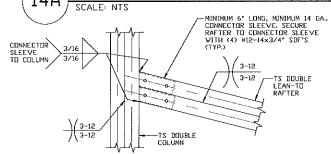
14 SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 12'-0" 14B SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < T□ < 16'-0" 14A



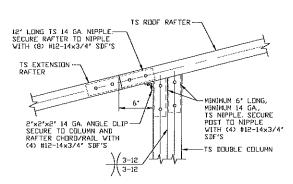
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < T□ < 16'-0" SCALE: NTS

MOORE AND ASSOCIATES
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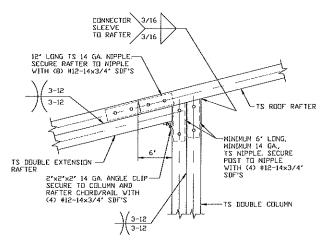
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DRAWN BY: JG	1124 N. SOUTH STREET						
		IOUNT AIRY, NO					
CHECKED BY: PDH	30'-0"x1	6'-0" ENCLOSED	STR	UCTURE			
PROJECT MGR: WSM	DATE: 10-2-20	SCALE) NTS	JDB	ND: 20198S			
CLIENT: CBS	SHT. 14	DWG. NO: SK-3		REV.i 0			

# **BOX EAVE RAFTER LEAN-TO OPTIONS**



SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS & 12'-0'
SCALE, NTS



SIDE EXTENSION RAFTER/COLUMN

DETAIL FOR SPANS 12'-0" < TO \(\subseteq 16'-0")

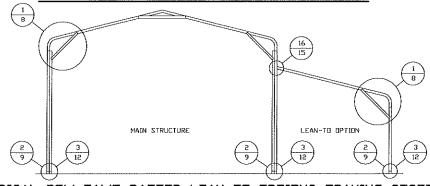
SCALE: NTS

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ENGINEERING AND CONSULTIN	i, INC. 6
MOORE AND ASSOCIATES	I

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	DRAWN BY: JG	1	124 N. SOUTH \$1	SOUTH STREET				
		MOUNT AIRY, NC 27030						
	CHECKED BY: PDH	30'-0"x1	6'-0" ENCLOSED	STRU				
	PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB	ND: 2019BS			
	CLIENT: CBS	SHT. 14A	DVG. NO SK-3		REV.1 0			

# BOW EAVE RAFTER LEAN-TO OPTIONS

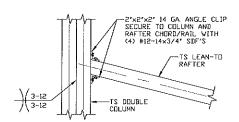


#### TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

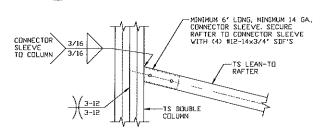
NOTE: KNEE BRACE MUST BE 4'-0' REGARDLESS OF COLUMN HEIGHT.
FOR SHARED COLUMNS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR
APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.

A A -2'x2'



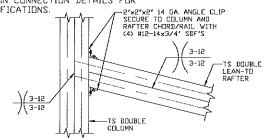
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 12'-0'

 $\frac{16}{\text{SCALE: NTS}}$ 

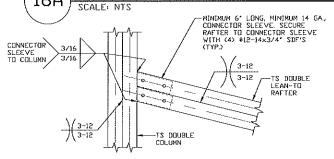


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 12'-0'

16B) SCALE: NTS



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL FOR
RAFTER SPANS 12'-0" < TO < 16'-0"



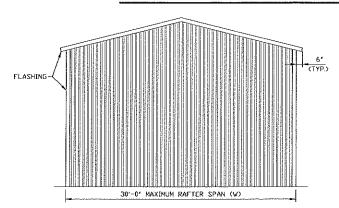
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO \( \lefta \) 16'-0"

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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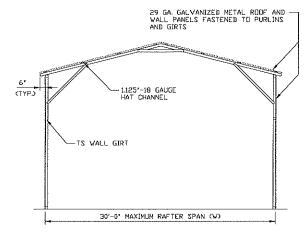
		M BUILT STRUC				
DRAWN BY: JG	1	124 N. SOUTH ST	REET			
	MOUNT AIRY, NC 27030					
CHECKED BY: PDH	30'-0"x16'-0" ENCLOSED STRUCTUI					
PROJECT MGR: VSM	DATE: 10-2-20	SCALE: NTS	JOB NO 20198S			
CLIENT: CBS	SHT. 15	DWG, NO SK-3	REVa 0			

# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



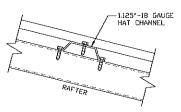
# TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



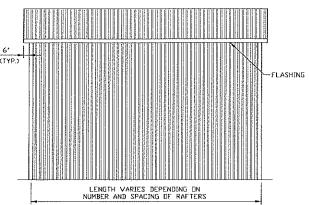
# TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



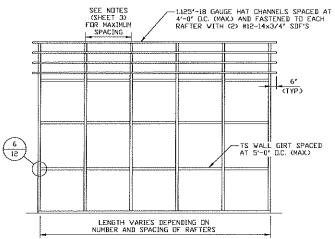
#### PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



# TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



# TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION WITH TS GIRTS

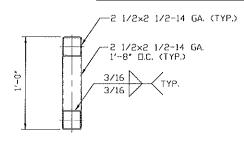
SCALE: NTS

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	CUSTOM BUILT STRUCTURES, INC.							
DRAWN BY: JG	1124 N. SOUTH STREET							
	N	MOUNT AIRY, NC 27030						
CHECKED BY: PDH	30'-0"x10	30'-0"x16'-0" ENCLOSED STRUCTURE						
PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB	ND: 20198S				
CLIENT: CBS	SHT. 16	מעם, אם: SK-3		REV.⊢0				

## SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 10'-0" < LENGTH \( \) 16'-0"

SCALE: NTS (12'-0" < LENGTHS < 16'-0" FOR SNOW LOADS < 35 PSF)



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS
6'-0' < LENGTH \( \le \) 10'-0"

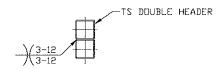
-TS DOUBLE HEADER

SCALE: NTS (6'-0" < LENGTHS \( \) 12'-0" FOR SNOW LOADS \( \) 35 PSF>

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS ≤ 6'-0'

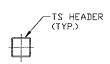
SCALE: NTS

## END WALL HEADER OPTIONS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 12'-0" < LENGTH < 16-0"

SCALE: NTS



HEADER DETAIL FOR END WALL DOOR OPENINGS < 12'-0'

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	1 N	M BUILT STRUC 124 N. SOUTH ST 4OUNT AIRY, NO 6'-0" ENCLOSED	TREET 27030
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