

## STRUCTURAL DESIGN STANDARD PACKAGE ENCLOSED BUILDING

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

23 June 2020 Revision 0 M&A Project No. 20126S

Prepared for:

TNT Carports, Inc. 170 Holly Springs Road Mount Airy, NC 27030

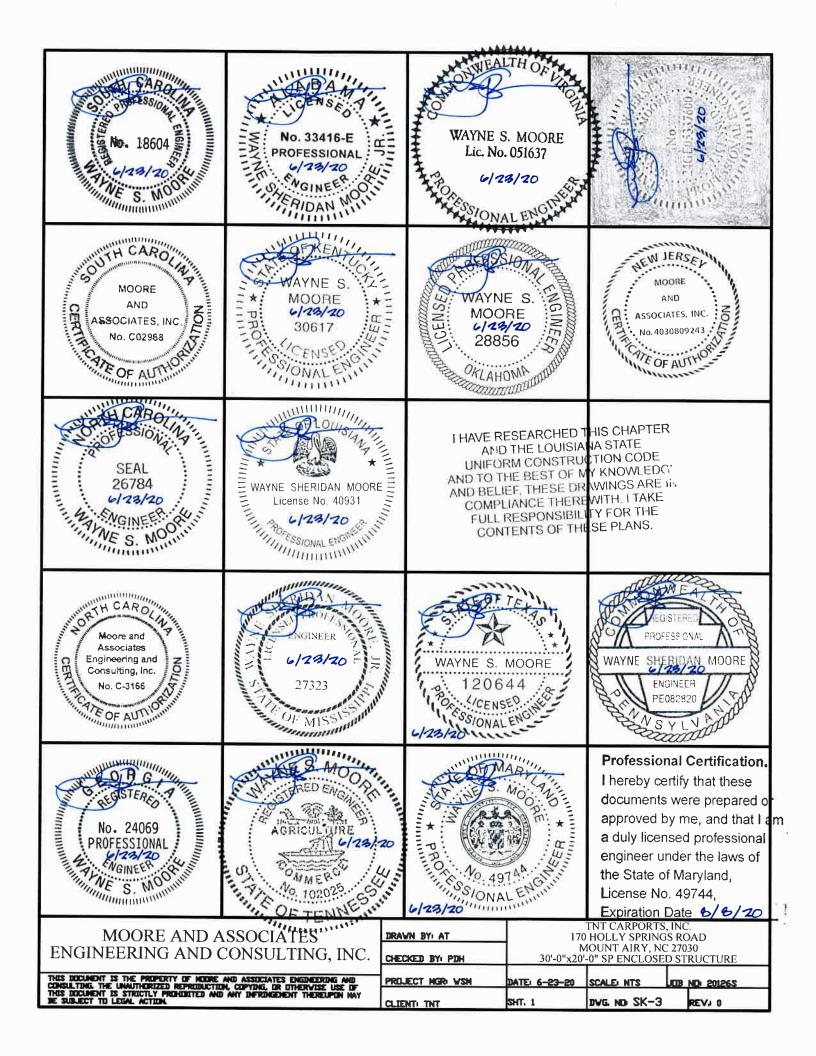
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

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401 South Main Street, Suite 200 Mount Airy, NC 27030





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#### INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (NCBC), 2018 IBC, 2015 IBC, 2012 IBC, 2009 IBC, AND 2006 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

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

- C) GROUND SNOW LOAD = 35 PSF (UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED).
- 4. ULTIMATE WIND SPEED 105 TO 145 MPH (NOMINAL WIND SPEED 81 TO 112 MPH): MAXIMUM RAFTER/POST AND END COLUMN SPACING = 5.0 FEET.
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT IN SIZE AND SPACING TO SIDE WALL POSTS (UNLESS NOTED OTHERWISE).
- 6. RISK CATEGORY I.
- 7 WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2'x2 1/2'-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). WHERE TS 2 1/2' x 2 1/2' 14 GAUGE IS SPECIFIED, TS 2 1/4' x 2 1/4' 12 GAUGE MAY BE USED AS AN OPTION.
- 9, AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° D.C. (MAX.)
- 10. 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, ROOFING WITH SLOPES LESS THAN 3:12 MUST BE LAP SEALANT.
- 11. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6° OF EACH RAFTER COLUMN ALONG SIDES.
- 12. GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY DNLY BE USED IN SUITABLE SOILS. HELIX ANCHORS, SEE DETAIL 2B, MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARESOLL SITE CLASS = D RISK CATEGORY I

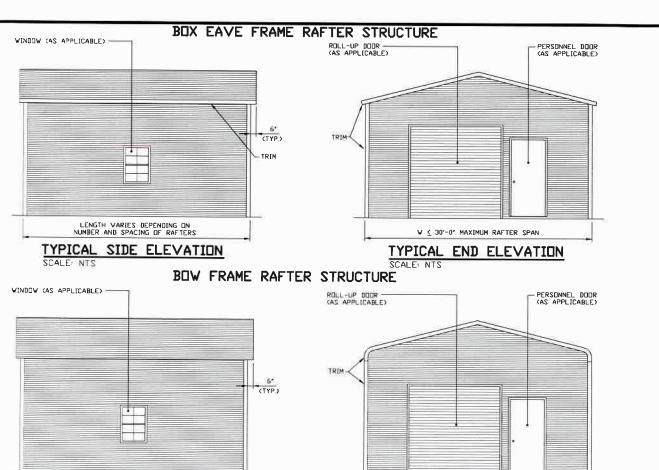
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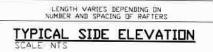
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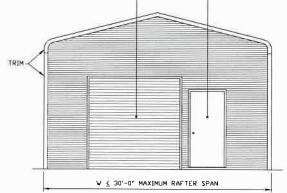
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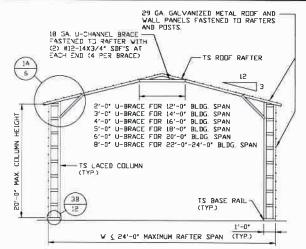






TYPICAL END ELEVATION SCALE: NTS

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### TYPICAL RAFTER/COLUMN END FRAME SECTION

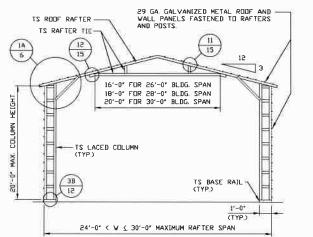
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29 GA GALVANIZED METAL ROOF AND VALL PANELS FASTENED TO RAFTERS AND POSTS.

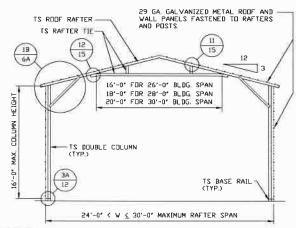
1B GA U-CHANNEL BRACE FOR 12-01 BLDG SPAN 12-1443/4' SIF'S AT EACH END (4 PER BRACE)

1B GA U-CHANNEL BRACE FOR 12-01 BLDG SPAN 12-10' U-BRACE FOR 12-01 BLDG SPAN 13-01' U-BRACE FOR 16'-0' BLDG SPAN 15'-0' U-BRACE FOR 18'-0' BLDG SPAN 15'-0' U-BRACE FOR 18'-0' BLDG SPAN 15'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN 15'-0'-24'-0' BLDG SPAN 15'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'-0'-24'

# TYPICAL RAFTER/COLUMN END FRAME SECTION



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

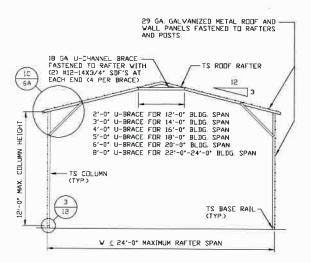


TYPICAL RAFTER/COLUMN END FRAME SECTION

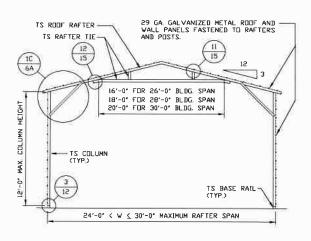
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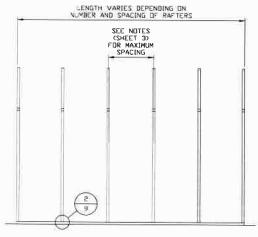
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## TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

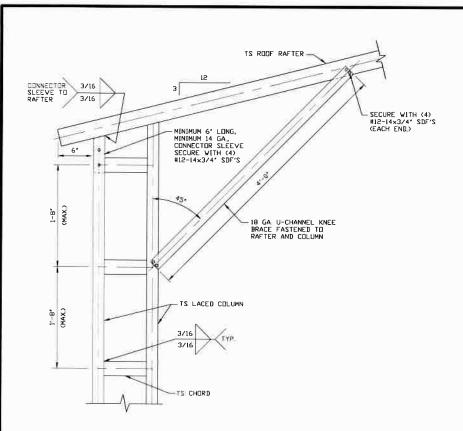


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

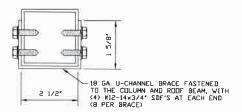
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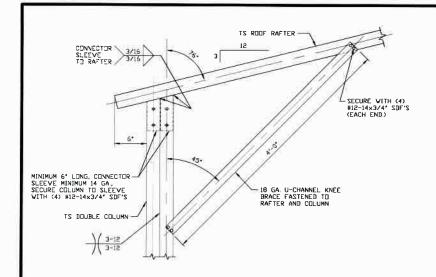
BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0' < TO \( \leq 20'-0' \)

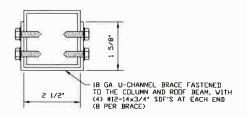


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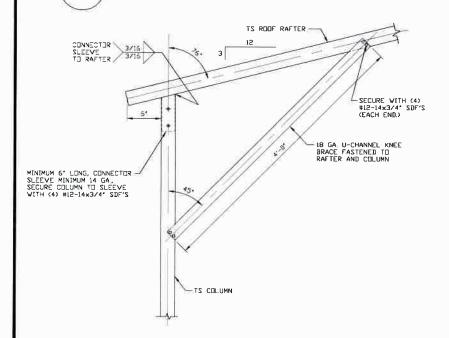




### BRACE SECTION

SCALE: NTS

# BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0'



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

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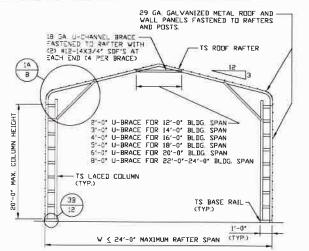
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NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

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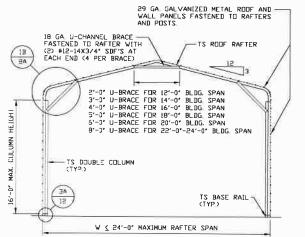
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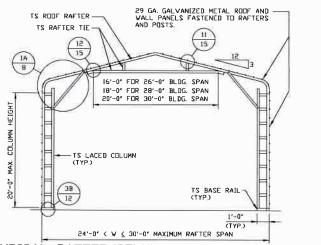
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SCALE: NTS



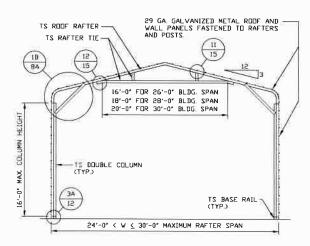
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TYPICAL RAFTER/COLUMN END FRAME SECTION

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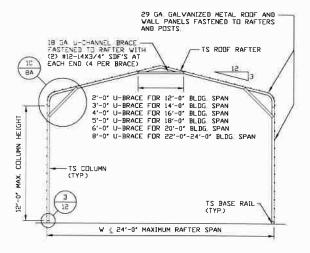


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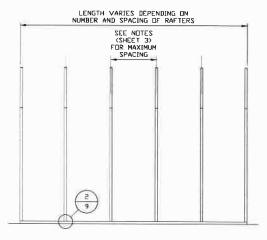


#### 29 GA. GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS. TS ROOF RAFTER-TS RAFTER TIE-11 15 IE BA 12 Эз 16'-0" FOR 26'-0" BLDG. SPAN 18'-0" FOR 28'-0" BLDG. SPAN 20'-0" FOR 30'-0" BLDG. SPAN HEIGHT COLUMN TS COLUMN MAX þ 3 TS BASE RAIL-24'-0' < W & 30'-0' MAXIMUM RAFTER SPAN

### TYPICAL RAFTER/COLUMN END FRAME SECTION

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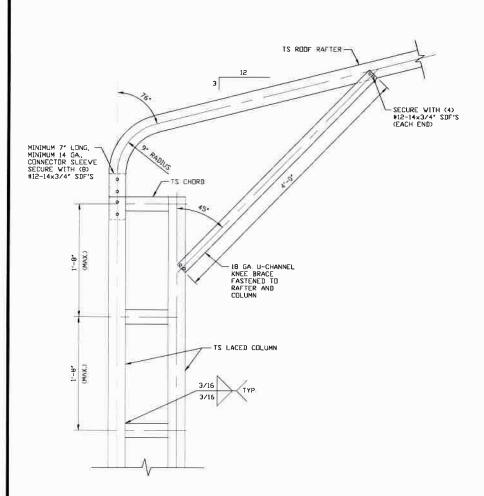
TYPICAL RAFTER/COLUMN END FRAME SECTION



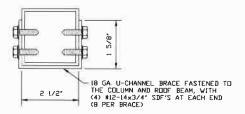
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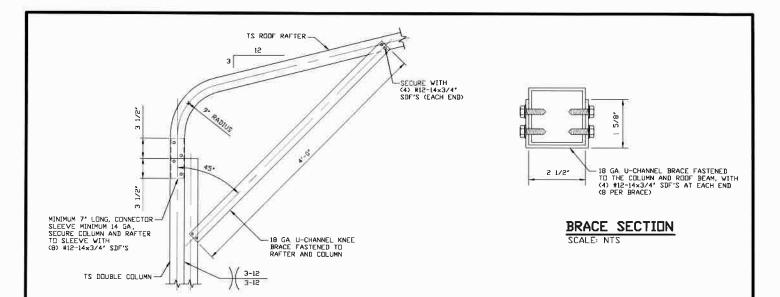


BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO \( \leq \ 20'-0' \)



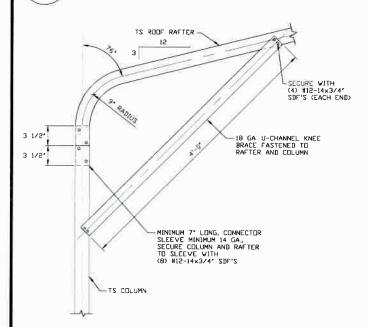
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BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < T□ ≤ 16'-0" 1B

SCALE NTS



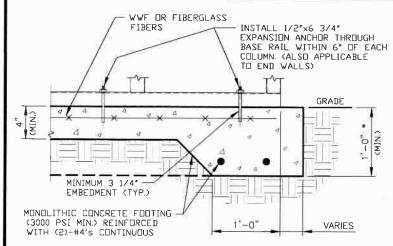
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR 

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NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

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### **BASE RAIL ANCHORAGE OPTIONS**





### 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 SOIL BEARING CAPACITY OF 1,500 PSF

#### CONCRETE

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 I 1/2' ELSEWHERE.

#### REINFORCING STEEL

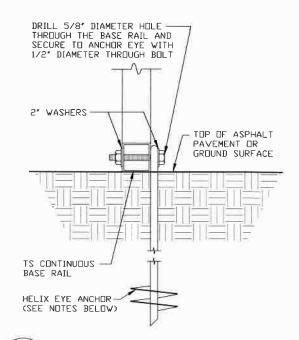
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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





## GROUND BASE HELIX ANCHORAGE

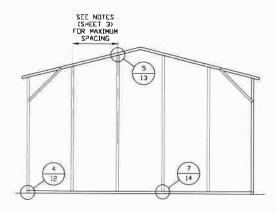
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\* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

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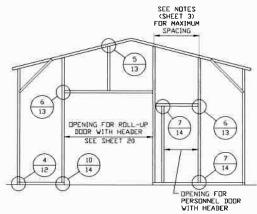
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### **BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



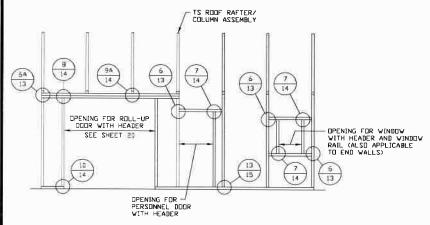
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

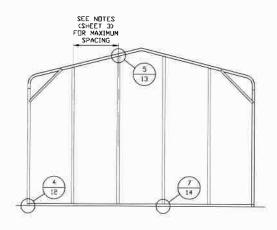


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

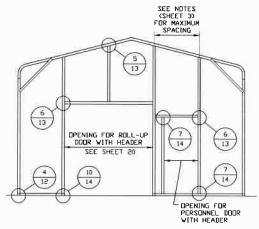
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### **BOW RAFTER END WALL AND SIDE WALL OPENINGS**



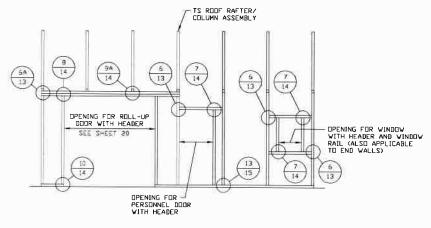
# TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

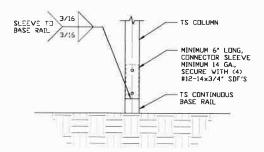
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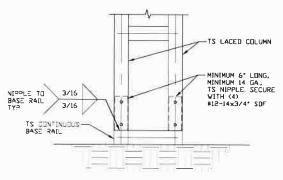
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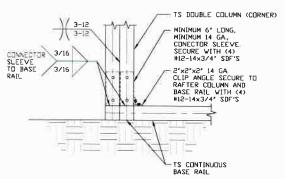
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ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE		
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# RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

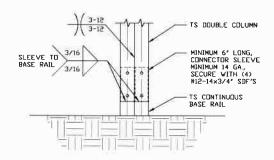


# RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

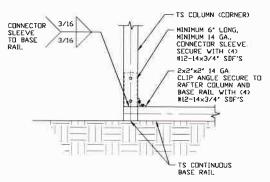


END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

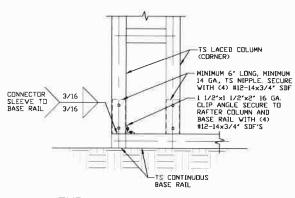


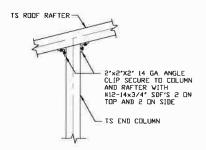
4 CONNECTION DETAIL
SCALE: NTS

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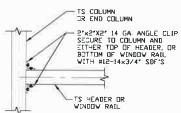
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1	PROJECT HGR: VSH	DATE: 6-23-20	SCALE: NTS	m.	ND 20126S
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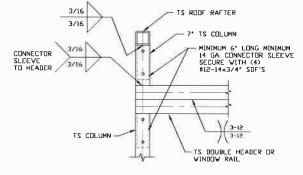
END COLUMN/BASE RAIL CONNECTION DETAIL **4B** SCALE: NTS

END COLUMN/RAFTER CONNECTION DETAIL 5 SCALE: NTS



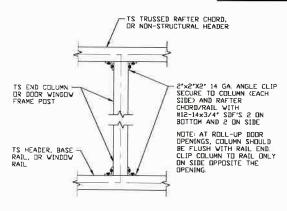
COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL SCALE NTS

6

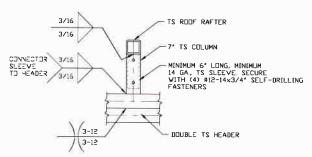


COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL 6A SCALE: NTS

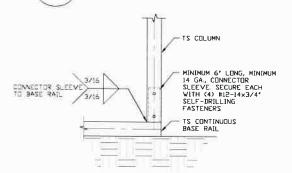
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	N	10UNT AIRY, NC -0" SP ENCLOSEI	27030
MOORE AND ASSOCIATES	DRAWN BY: AT		TNT CARPORTS, HOLLY SPRING	



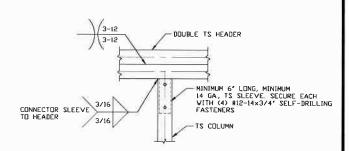
# 7 COLUMN TO WINDOW RAIL CONNECTION DETAIL SCALE: NTS



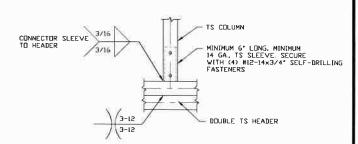
# 9A CONNECTION DETAIL SCALE: NTS







# 8 DOUBLE HEADER/COLUMN CONNECTION DETAIL

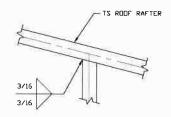


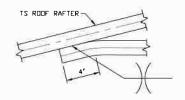
9B COLUMN/DOUBLE HEADER CONNECTION DETAIL

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BE SUBJECT TO LEGAL ACTION	

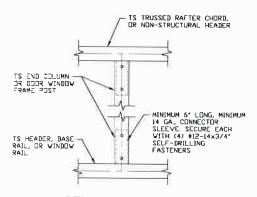
DRAVN BY: AT	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD MOUNT AIRY, NC 27030					
CHECKED BY: PDH	30'-0"x20'	30'-0"x20'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR: VSM	DATE: 6-23-20	SCALE: NTS	JOB	NO 20126S		
CLIENT: TNT	SHT. 14	DVG. ND SK-3	3	REV. 0		







12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



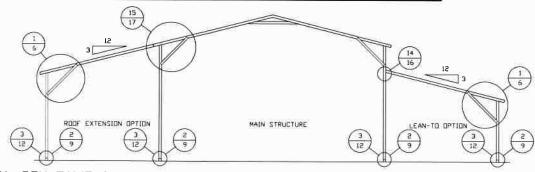
COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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	DRAWN BY: AT	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD				
		MOUNT AIRY, NC 27030				
J	CHECKED BY: PDH	30'-0"x20'-0" SP ENCLOSED STRUCTURE				
	PROJECT NGR VSH	DATE: 6-23-20	SCALE: NTS	JOB .	ND 20126S	
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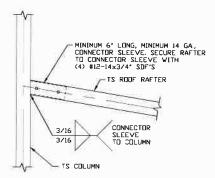
### **BOX EAVE RAFTER LEAN-TO OPTIONS**



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

SCALE: NTS

14A



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

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

TS DOUBLE ROOF RAFTER

13-12

TS COLUMN

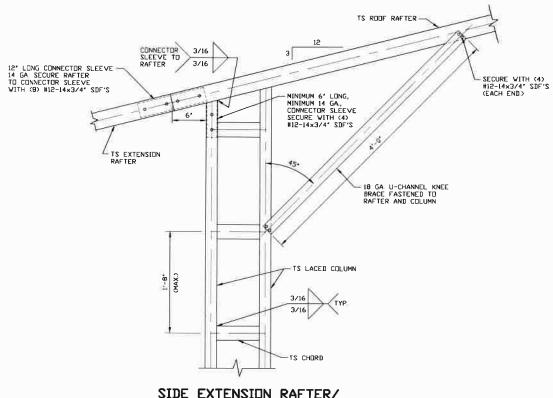
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0' < TO < 16'-0'
SCALE: NTS

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DRAWN BY: AT	I70 HOLLY SPRINGS ROAD MOUNT AIRY, NC 27030							

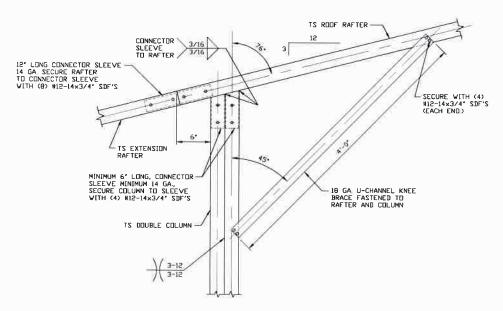
## BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"



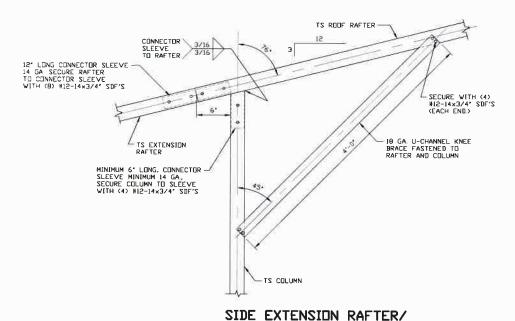
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0"
SCALE: NTS

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### BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS 12'-0" < T□ ≤ 16'-0" 15B SCALE: NTS

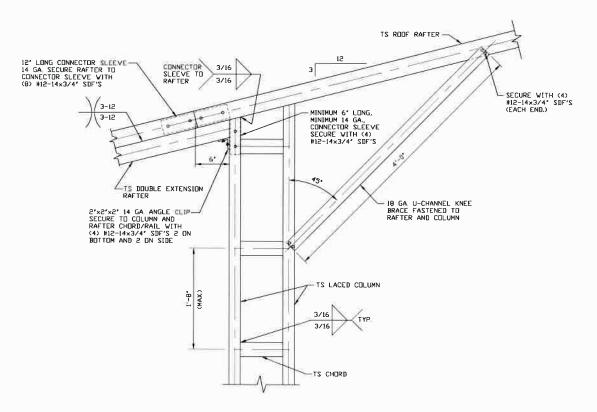


COLUMN DETAIL FOR HEIGHTS ≤ 12'-0" 15C SCALE: NTS

NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0"

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MOORE AND ASSOCIATES	DRAVN BY: AT		HOLLY SPRINGS	S ROAD

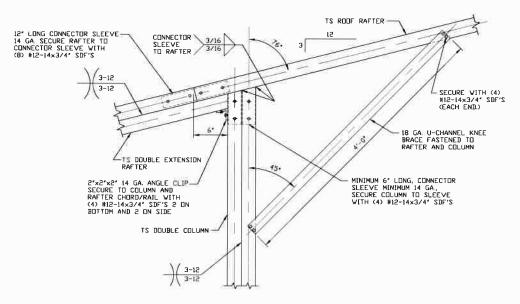
### BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



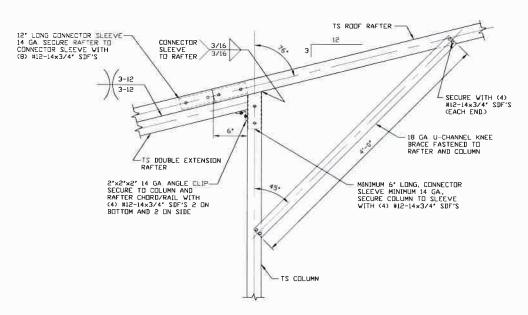
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0'

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### BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0" < TO \( \) 16'-0"



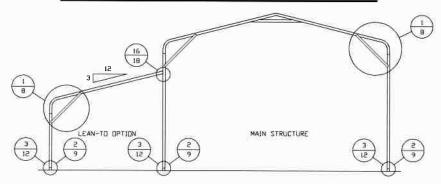
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS & 12'-0'

SCALE: NTS

NDTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

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### **BOW EAVE RAFTER LEAN-TO OPTION**



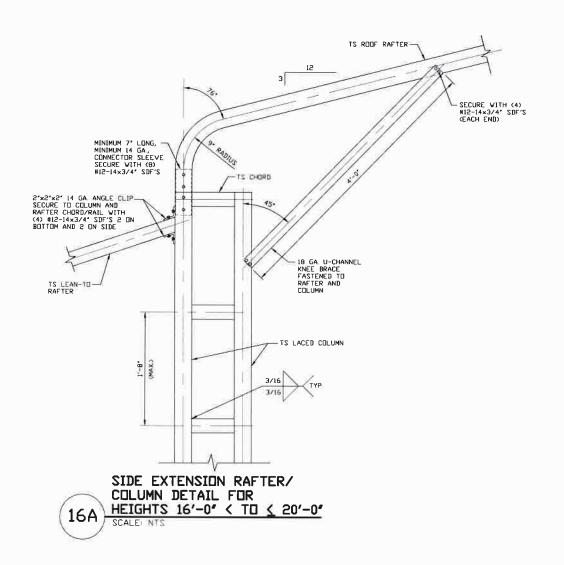
TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

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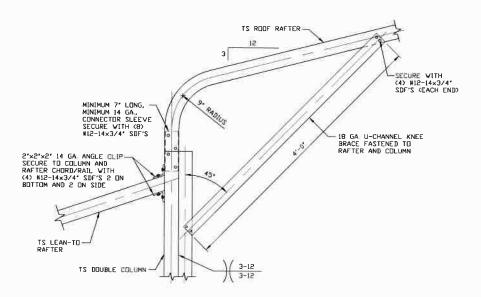
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PROJECT NGR: VSN	DATE: 6-23-20	SCALE: NTS	CALE NTS JUB NO 20126S				
CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE					
DRAWN BY: AT	17	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD					

### **BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"**



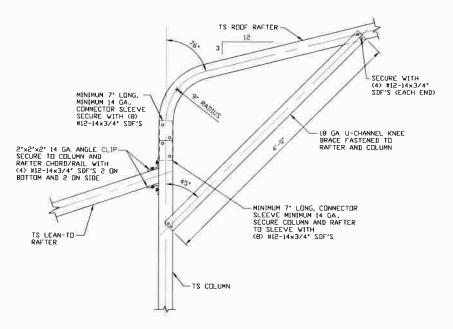
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## BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS $\leq$ 12'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0' < TO < 16'-0"

SCALE: NTS



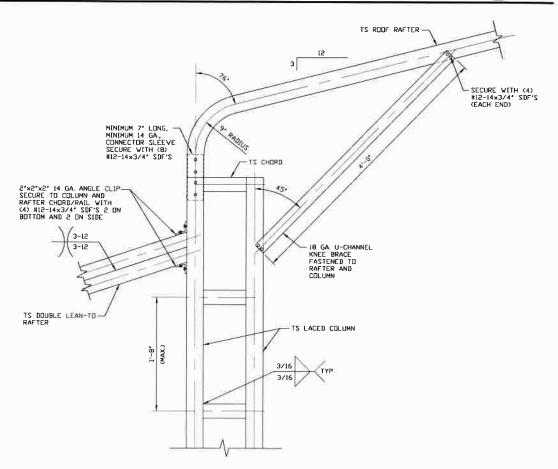
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS & 12'-0'

SCALE: NTS

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

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## BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"

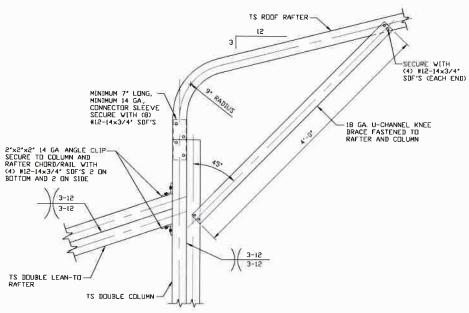


SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR

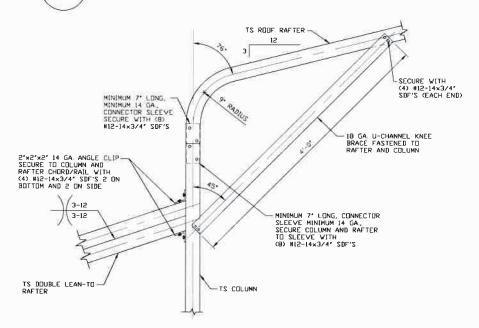
HEIGHTS 16'-0" < TO \( \) 20'-0"

MOORE AND ASSOCIATES  ENCON HEIDRIG AND GONGLY HER IG THE		170	TNT CARPORTS, I HOLLY SPRINGS YOUNT AIRY, NC	ROAD
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		-0" SP ENCLOSED	
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## BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0' < TO \( \) 16'-0'

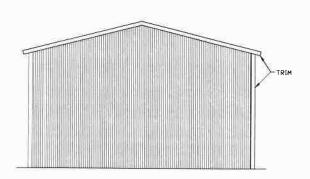


SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS & 12'-0'
SCALE: NTS

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

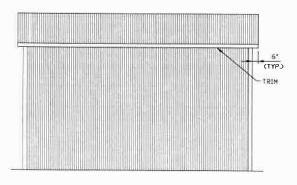
MOORE AND ASSOCIATES			TNT CARPORTS HOLLY SPRINC MOUNT AIRY, N	Ś ROAD
ENGINEERING AND CONSULTING, INC.				D STRUCTURE
ICURSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PROJECT MGR VSM	DATE: 6-23-20	SCALE: NTS	JUB ND 501562
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### BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



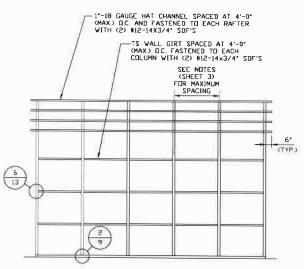
# TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



## TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



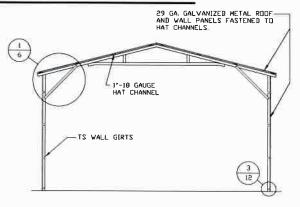
# TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.
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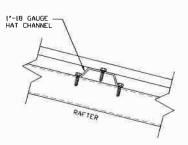
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		TNT CARPORTS, INC.				
DRAWN BY: AT		170 HOLLY SPRINGS ROAD				
		MOUNT AIRY, NC 27030				
CHECKED BY: PDH	30'-0"x20	30'-0"x20'-0" SP ENCLOSED STRUCTURE				
PROJECT HGR VSH	DATE: 6-23-20	SCALE: NTS	Imp.	NE OMOCO		
FREDOLDT HOW WOR	MAIC O CO CO	SCALE HIS	Line	UCB NO 20126S		
CLIENT: TNT	SHT. 19	DVG. ND: SK-3 REV. 0		REV. 0		



## TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

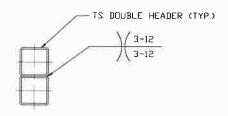
SCALE: NTS



### PANEL ATTACHMENT

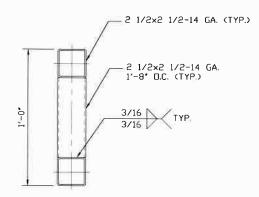
(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS

### **SIDE WALL HEADER OPTIONS**



### HEADER DETAIL FOR LENGTHS ≤ 12'-0"

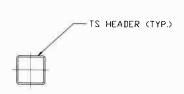
SCALE: NTS

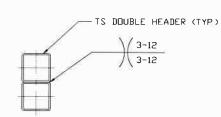


### HEADER DETAIL FOR LENGTHS 12'-0" < TO ≤ 14'-0"

SCALE: NTS

### **END WALL HEADER OPTION**





### HEADER DETAIL FOR LENGTHS & 12'-0'

SCALE: NTS

HEADER DETAIL FOR LENGTHS 12'-0" < TO \( \) 14'-0"

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: AT	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE				
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