Customer Name: Jessica Bliven

Install Address: 214 Sheriff Johnson Road.

Lillington, North Carolina 27546 Phone Number: 910-578-1761 Email: blivenbutterfly@gmail.com



STRUCTURAL DESIGN **ENCLOSED BUILDING**

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

JESSICA BLIVEN Revision 1 M&A Project No. 20217S/22082S

Prepared for:

Pre-Built Structures 1330 W Jake Alexander Blvd. Salisbury, NC 28417

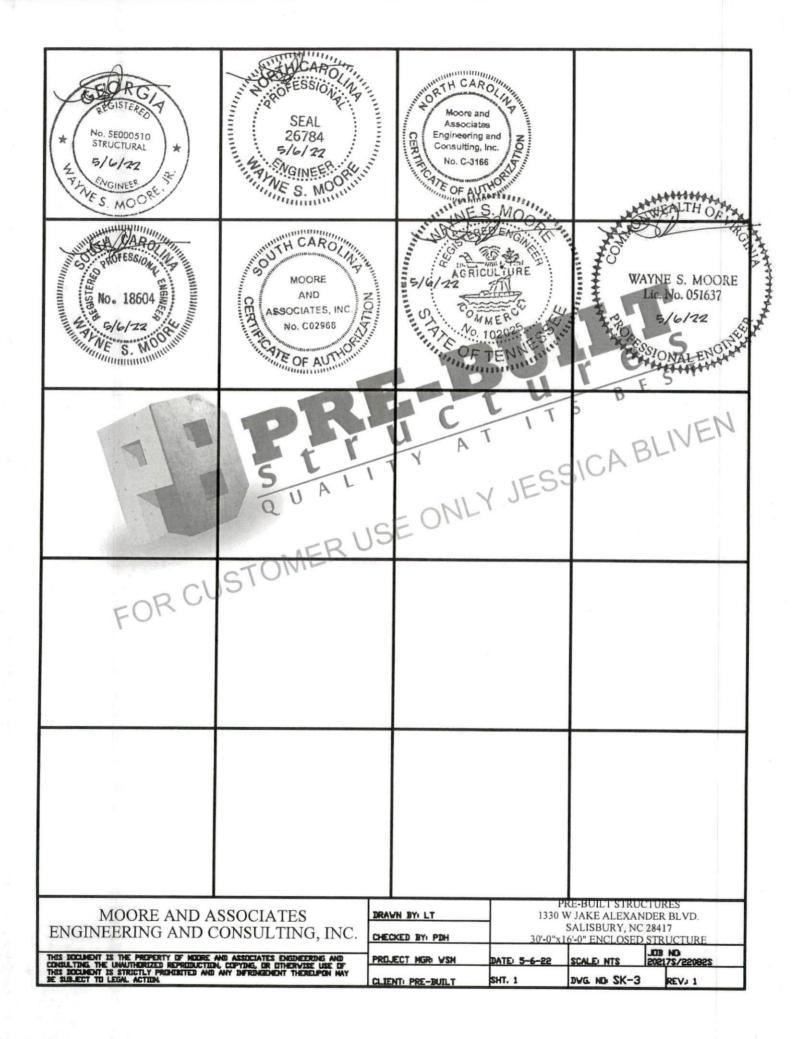
Prepared by:

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

> 401 S. 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 16'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) ROOF DEAD LOADS

SELF-WEIGHT = 1.5 PSF

MEP = 0 PSFCOLLATERAL = 0 PSF

B) ROOF LIVE LOAD = 12 PSF

C) FLOOR LIVE LOAD

= 100 PSF (4' CONCRETE SLAB/FOOTING)

D) GROUND SNOW LOAD = 35 PSF

= 30 PSF (WITH U-CHANNEL RAFTER TIE)

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED,

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = ≤ 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 (NOT FOR HUMAN HABITATION).
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2'x2 1/2'-14 GAUGE TUBE STEEL (
 FRAMING MEMBERS (UNLESS NOTED DTHERWISE), 2 1/4'x2 1/4'-12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS. (ZT)
- 10. CONNECTOR SLEEVES ARE MINIMUM 6' LDNG, TS 2 1/4'x2 1/4'-14 GAUGE FDR 2 1/2'x2 1/2'-14 GAUGE AND TS 2'x2'-12 GAUGE 2 1/4'x2 1/4'-12 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 11. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 WITH CFy) OF 54 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60. MINIMUM YIELD STRENGTH
- 12. AVERAGE PANEL FASTENER SPACING DN-CENTERS = 10 INCHES.
- 13. FASTENERS CONSIST OF #12-14x3/4' SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.
 SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 FEET OR LESS, AND ROOF SLOPES OF 14' (8:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY WARY ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
- 14. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' DF EACH COLUMN.

 15. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REPAR W/ WELDED NUT × 30' LONG AND MAY ONLY BE USED IN CONJUNCTION WITH OTHER (OPTIONAL) ANCHOR DEVICES AND ONLY IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION. DEPTH PROTECTION.
- 16. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- 17. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE

SDIL SITE CLASS = D

RISK CATEGORY I

 $I_E = 1.0$ R = 3.25

 $S_{12} = 2.625 g$ $S_{D1} = 2.13 g$

- 18. IF MORE THAN 50% OF COLUMN (LEG) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALLS OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED.
- 19. THIS MASTER DESIGN IS A GENERIC MASTER DESIGN PRIMARILY INTENDED FOR PLANT FABRICATION AND ERECTION AICH TO SHIP DRAWINGS. THE MASTER DESIGN IS NOT PROMARILY INTENDED FOR CONSTRUCTION PERMIT, WHEN APPLYING FOR BUILDING PERMIT, THE CERTIFIED BUILDING DEFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR BUILDING PERMIT, ANY VARIATION FROM THE AMALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.

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LIST OF APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE CADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 NORTH CAROLINA BUILDING CODE (ADDPTS THE IBC 2015 WITH AMENDMENTS)

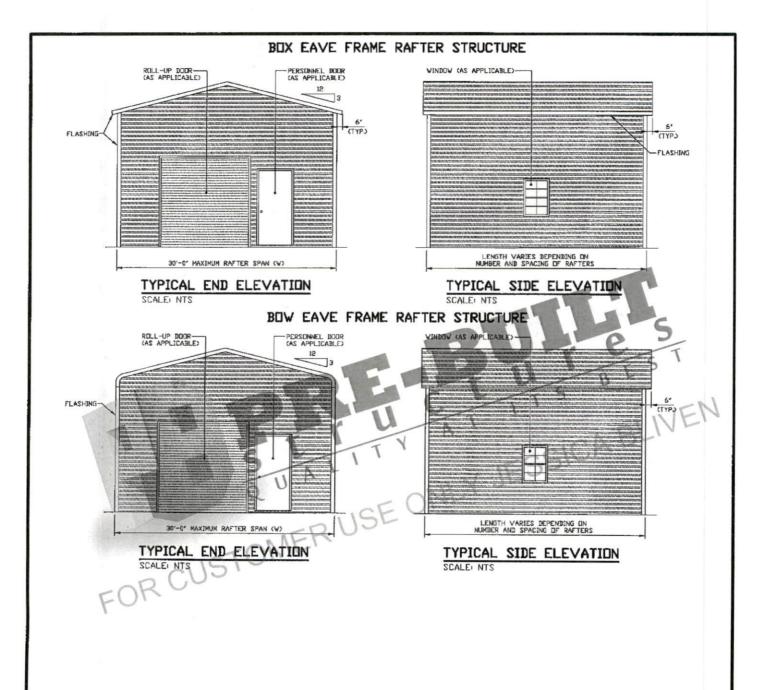
2018 SOUTH CAROLINA BUILDING CODE CATOMONAMA HTIW 8105 DEL 3HT STORMENTS)

BUILDING CODE 2012 OF TENNESSEE (ADDPTS THE IBC 2012 WITH AMENDMENTS) BUILDING CODE 2018 OF NASHVILLE AND DAVIDSON COUNTY (ADDPTS THE IBC 2018 WITH AMENDMENTS)

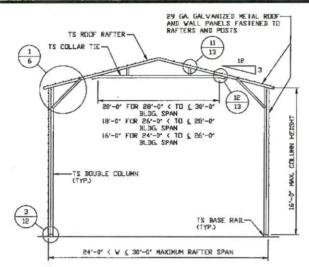


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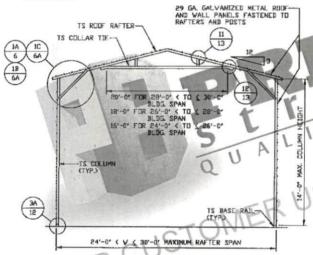


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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

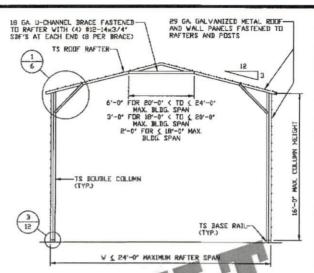
SEE NOTES
(SHEEF 3)
FOR MAXIMUM
SPACING

LENGTH VARIES DEPENDING DN
NUMBER AND SPACING OF RAFTERS

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

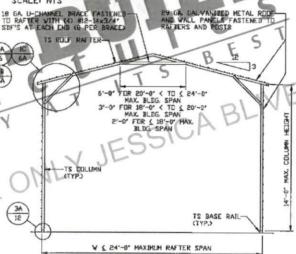
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TYPICAL RAFTER/COLUMN FRAME SECTION

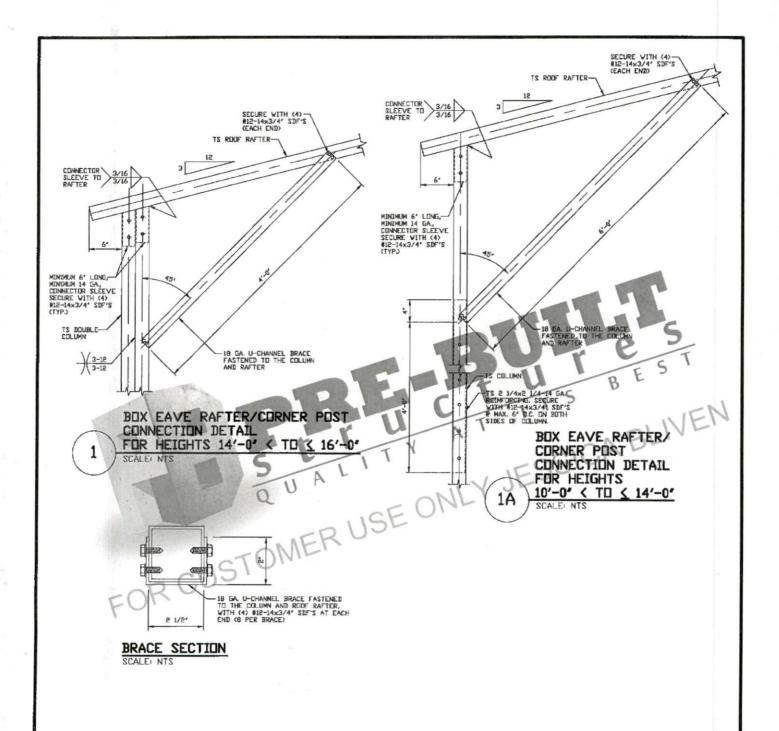
SCALE: NTS



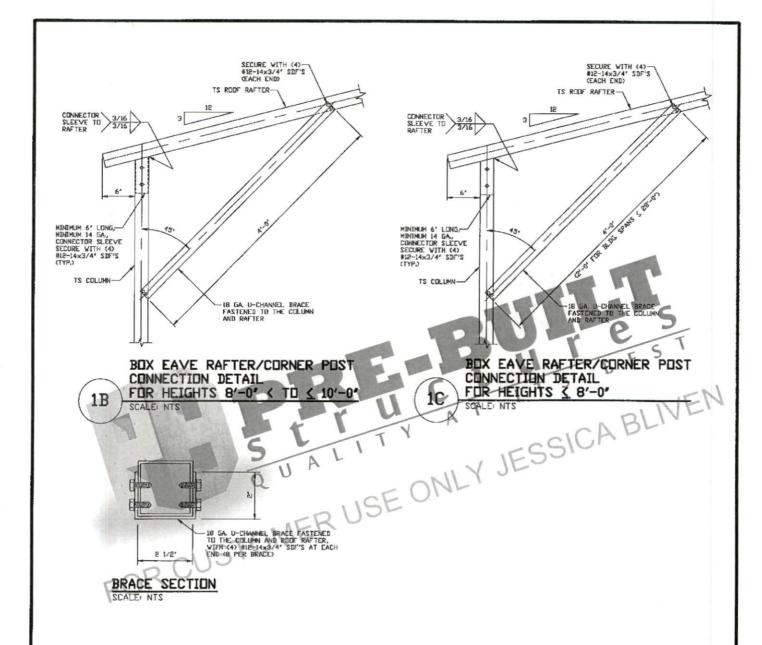
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

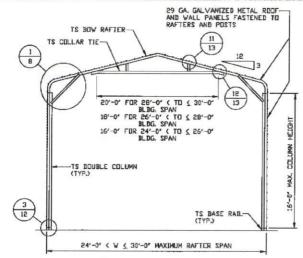
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PROJECT HGR: VSM	DATE: 5-6-22	SCALE NTS	JU3 2021	ND 75/220825
CHECKED BY: PDH	30'-0"x	SALISBURY, N 16'-0" ENCLOSI		
DRAWN BY: LT	The second second	W JAKE ALEX	ANDER	BLVD.



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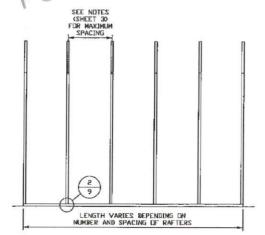
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TYPICAL RAFTER/COLUMN FRAME SECTION

29 GA. GALVANIZED METAL ROOF-AND WALL PANELS FASTENED TO RAFTERS AND POSTS TS BOW RAFTER 11 TS COLLAR TIE 13 20'-0' FOR 28'-0' < TO \ 30'-0'
BLDG. SPAN
18'-0' FOR 26'-0' < TO \ 28'-0'
BLDG. SPAN 13 16'-0' FOR 24'-0" (TO C 26'-0" COLUMN TS COLUMN 3A 12 TS BASE 24'-0' < V € 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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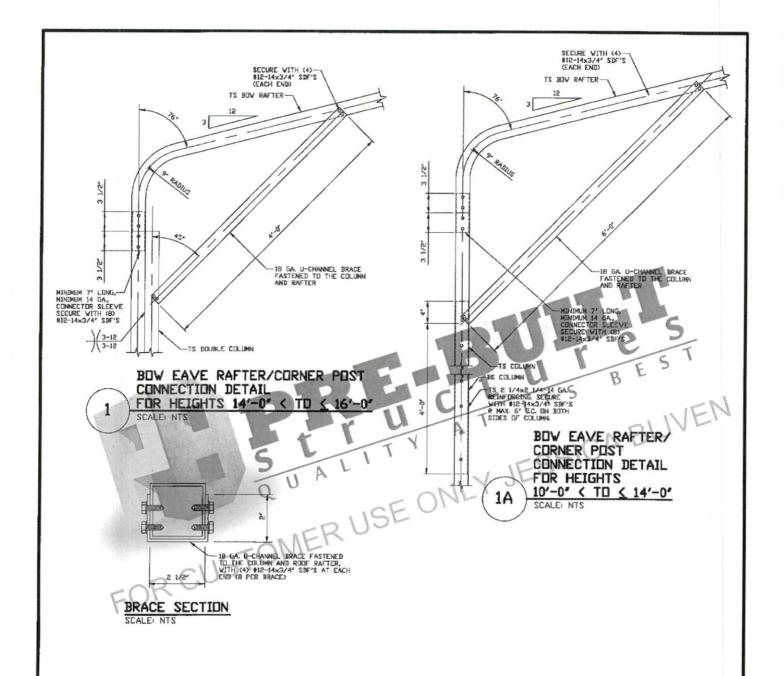
29 GA, GALVANIZED METAL RODF-AND WALL PANELS FASTENED TO RAFTERS AND POSTS 18 GA. U-CHANNEL BRACE FASTENED TD RAFTER WITH (4) #12-14x3/4' SDF'S AT EACH END (8 PER BRACE) TS BOW RAFTER (1 B 6'-0' FUR 20'-0' < TO < 24'-0' MAX. BLDG. SPAN 3'-0' FUR 18'-0' < TO < 20'-0' MAX. BLDG. SPAN 2'-0' FUR \$ 18'-0' MAX. BLDG. SPAN COLUMN TS DOUBLE COLUMN MAX. 16'-0" 3 TS BASE RAIL-₩ 5 24'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION

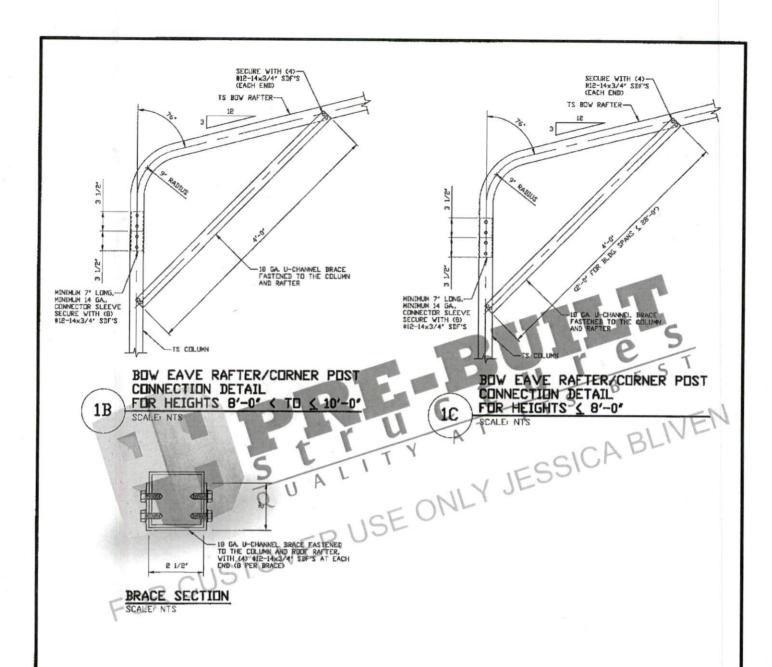
SCALE: NTS 29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS 18 GA. U-CHANNEL BRACE FASTENED TO RAFTER WITH (4) #12-14x3/4' SDF'S AT EACH END (8 PER BRACE) TS BOW RAFTER 1A IC 8 BA 12 -0' FOR 20'-0' < TD < 24'-0' MAX. BLDG. SPAN
-0' FOR 10'-0' < TD < 20'-0' MAX. BLDG. SPAN
2'-0' FOR (18'-0') MAX. BLDG. SPAN
2'-0' FOR (18'-0') MAX. BLDG. SPAN COLUMN MAX. 14,-0. TS BASE RAIL-₩ < 24'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION

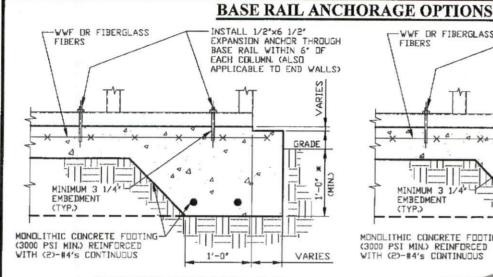
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WWF DR FIBERGLASS INSTALL 1/2"x6 1/2" FIRERS EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' DF EACH COLUMN. (ALSO APPLICABLE TO END WALLS) VARIES a X GRADE 111 MINIMUM 3 1/4" 2 EMBEDMENT (TYP.) MONOLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS # D' VARIES

2

CONCRETE MONDLITHIC SLAB BASE RAIL ANCHORAGE

SCALEL NTS MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL CODES/ORD.

REGARDING MINIMUM FROST DEPTH REQ.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL 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 AGI-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 AGIS GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 DR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 1. REINFORCEMENT IS BENT COLD.
 2. 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:

- 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 LOUSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND
- FILL, USE MINIMUM (2) B' HELICES WITH MINIMUM 60' EMBEDMENT.

CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4

× COURDINATE WITH LOCAL CODES/ORD,
REGARDING MINIMUM FRUST DEPTH REQ.



DRILL 5/8' DIAMETER HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2' DIAMETER THROUGH BOLT

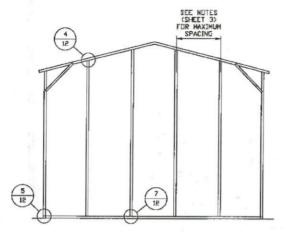
GROUND BASE HELIX ANCHORAGE **2B**

SCALE: NTS (CAN BE USED FOR ASPHALT) * COORDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.

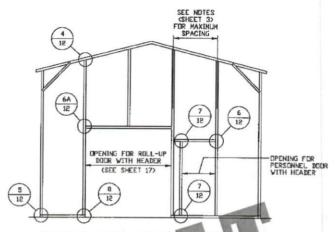
SILTS ALLUVIAL FILL, USE 50° EMBEDMENT.	WINIMUM (S) P.	HELICES	WITH MINIMUM
FOR VERY LOSE TO MEDIUM			

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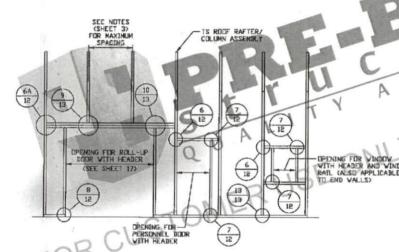


TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION



TYPICAL BOX EAVE RAFTER END WALL DPENINGS FRAMING SECTION JESSICA BLIVEN

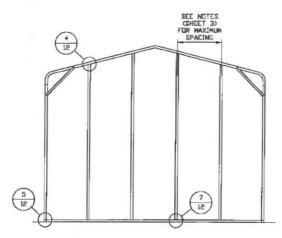
SCALE! NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

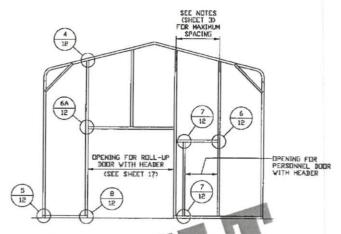
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BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS

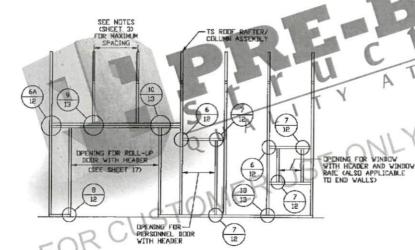


TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS

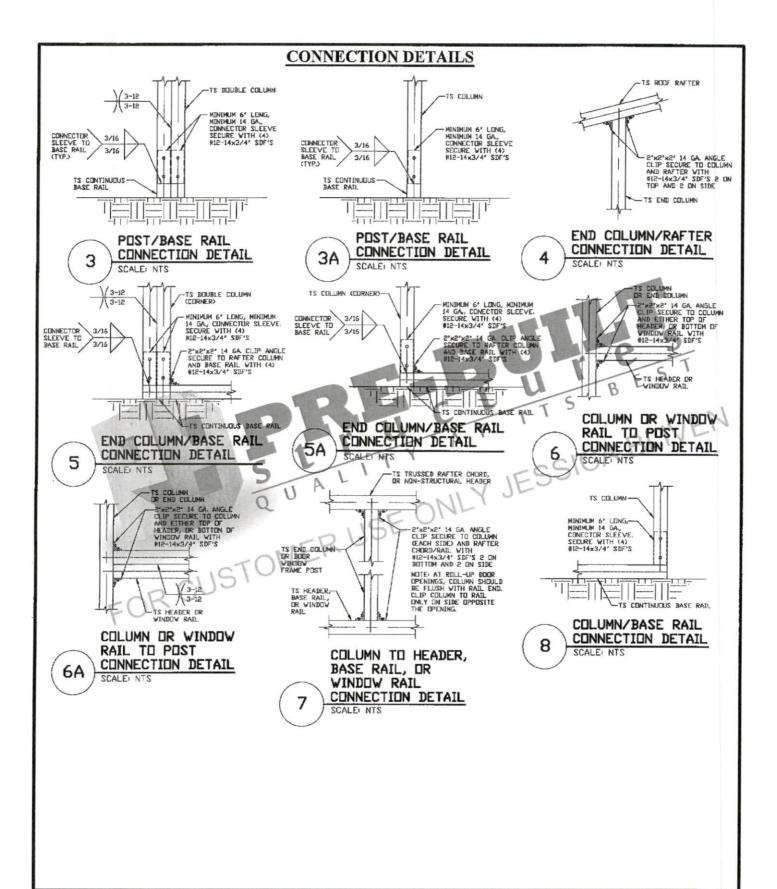


TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION JESSICA BLIVEN

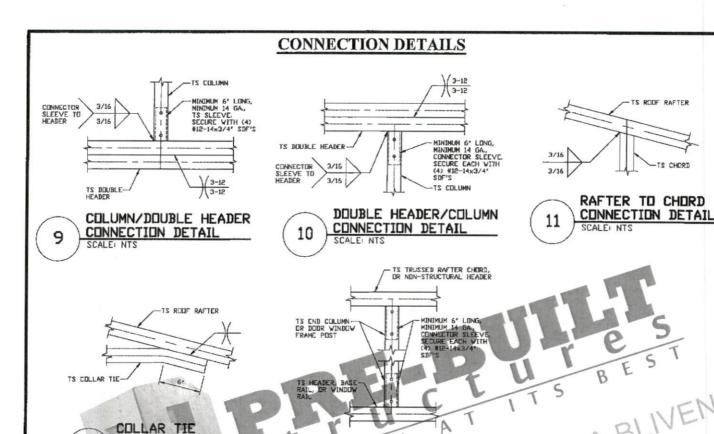


TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

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TS RODF RAFTER

CONNECTION DETAIL 13 FOR CUSTOMER USE

CONNECTION DETAIL

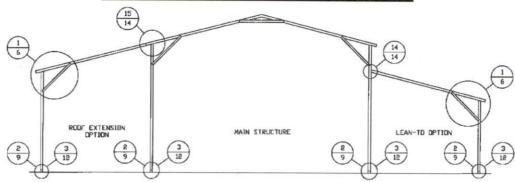
12

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COLUMN TO HEADER

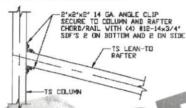
DR BASE RAIL





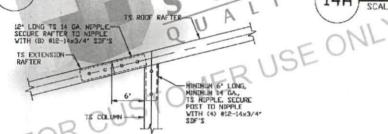
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS UTILIZED IN A LEAN-TO CONFIGURATION.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

FOR RAFTER SPANS & 12'-0" 14

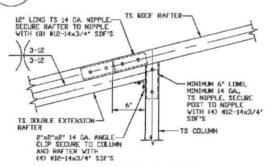


SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS

≤ 12'-0'

SCALE: NTS

15



SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS 12'-0' < TO < 16'-0" 15A SCALE: NTS

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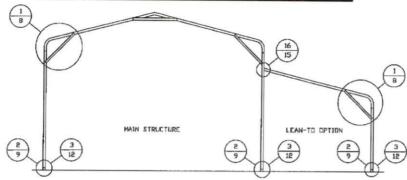
CLIENT: PRE-BUILT	SHT. 14	DVG. NO SK-	3	REV. 1
PROJECT MGR VSM	DATE: 3-6-22	SCALE NTS	EOS	ND 175/220825
CHECKED BY: PDH	30'-0"x	SALISBURY, 1 16'-0" ENCLOSI		
DRAWN BY: LT		W JAKE ALEX		

EAN-TO RAFTER TO RAFTER

COLUMN CONNECTION DETAIL FOR

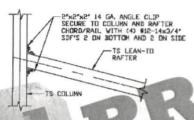
RAFTER SPANS 12'-0" < T□ < 16'-0"





TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS UTILIZED IN A LEAN-TO CONFIGURATION.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FUR RAFTER SPANS & 12'-0"

16

SCALE: NTS

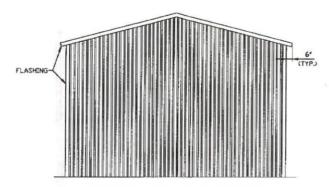
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0' (TO \(\) 16'-0'

16A SCALE: NTS

FOR CUSTOMER USE

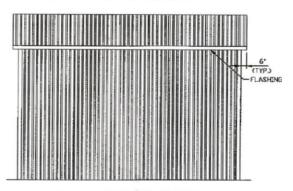
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



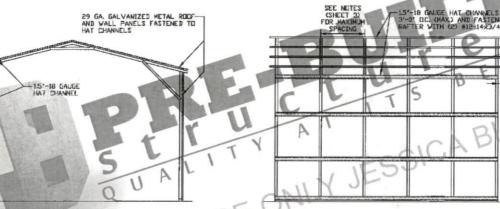
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

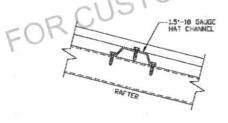
SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION WITH TS GIRTS
SCALE NTS



PANEL ATTACHMENT

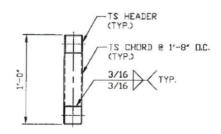
(ALTERNATE FOR VERTICAL ROOF PANELS)

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PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB 2021	NO 7\$/22082\$	1
CHECKED BY: PDH	30'-0"x	SALISBURY, N 16'-0" ENCLOSE			
DRAWN BY: LT		'RE-BUILT STR W JAKE ALEXA	ANDER	BLVD.	

SIDE WALL HEADER OPTIONS



TS HEADER

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 12'-0" < LENGTH ≤ 16'-0" SCALE: NTS

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS ≤ 12'-0"

END WALL HEADER OPTIONS

TS HEADER (TYP.)

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 14'-0' < LENGTH (06'-0"

SCALE NTS

HEADER DETAIL FOR END WALL DOOR OPENINGS & 14'-0"

-TSCHEADER B

SCALE NTS

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FOR CUSTOMER	
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