

STRUCTURAL DESIGN **ENCLOSED BUILDING**

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

> 6 May 2022 **Revision 1** M&A Project No. 20217S/22082S

> > Prepared for:

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

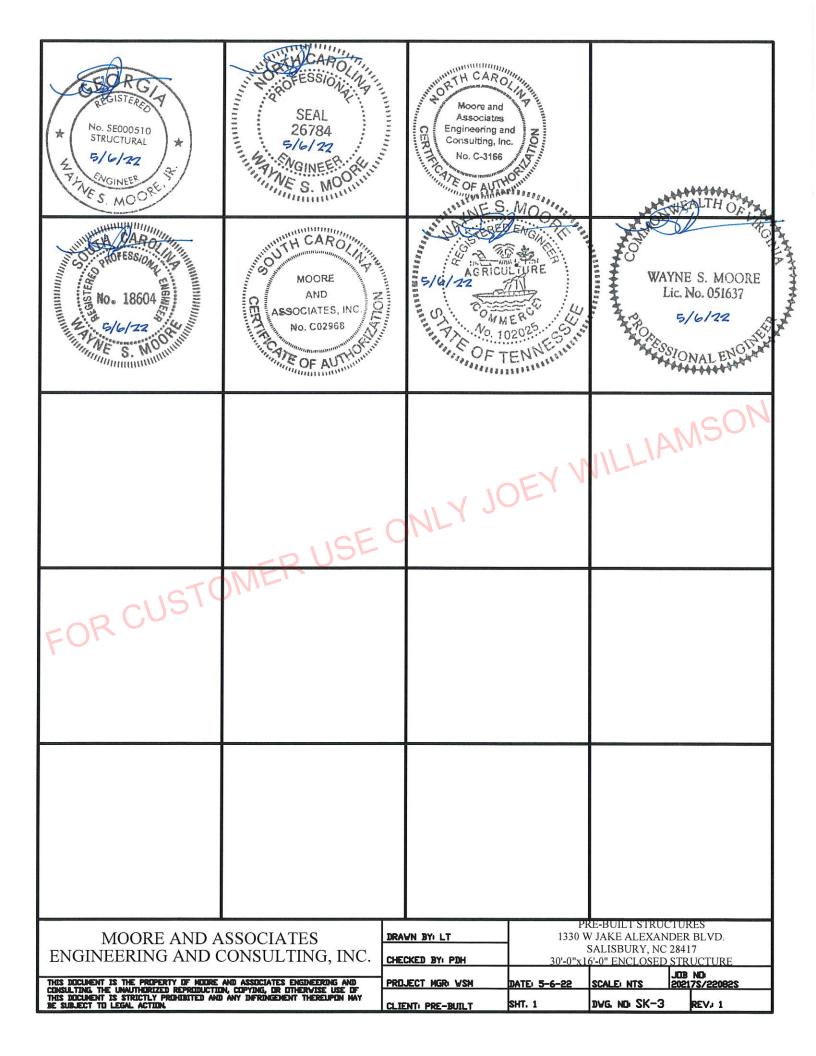
Prepared by:

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MOORE AND ASSOCIATES	DRAWN BY: LT	1	V JAKE ALEXANDE	

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 PSF

COLLATERAL = 0 PSF

- B) ROOF LIVE LOAD = 15 b2t
- 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 (VULT) = ≤ 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"×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. CONNECTOR SLEEVES ARE MINIMUM 6" LONG, TS 2 1/4"x2 1/4"-14 GAUGE FOR 2 1/2"x2 1/2"-14 GAUGE AND TS 2"x2"-12 GAUGE FOR 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 MINIMUM YIELD STRENGTH (Fy) OF 54 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
- 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* (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.
- 14. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' DF EACH COLUMN.
- 15. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30' LONG AND MAY DNLY 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.
- 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 $\sqrt{ = C_2 W}$ g = 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 AKIN TO SHOP DRAWINGS. THE MASTER DESIGN IS NOT PROMARILY INTENDED FOR CONSTRUCTION PERMIT, WHEN APPLYING FOR DULLDING PERMIT, THE CERTIFIED DULLDING DEFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR DUILDING PERMIT, ANY VARIATION FROM THE ANALYSIS/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 CADOPTS THE IBC 2015 WITH AMENDMENTS)

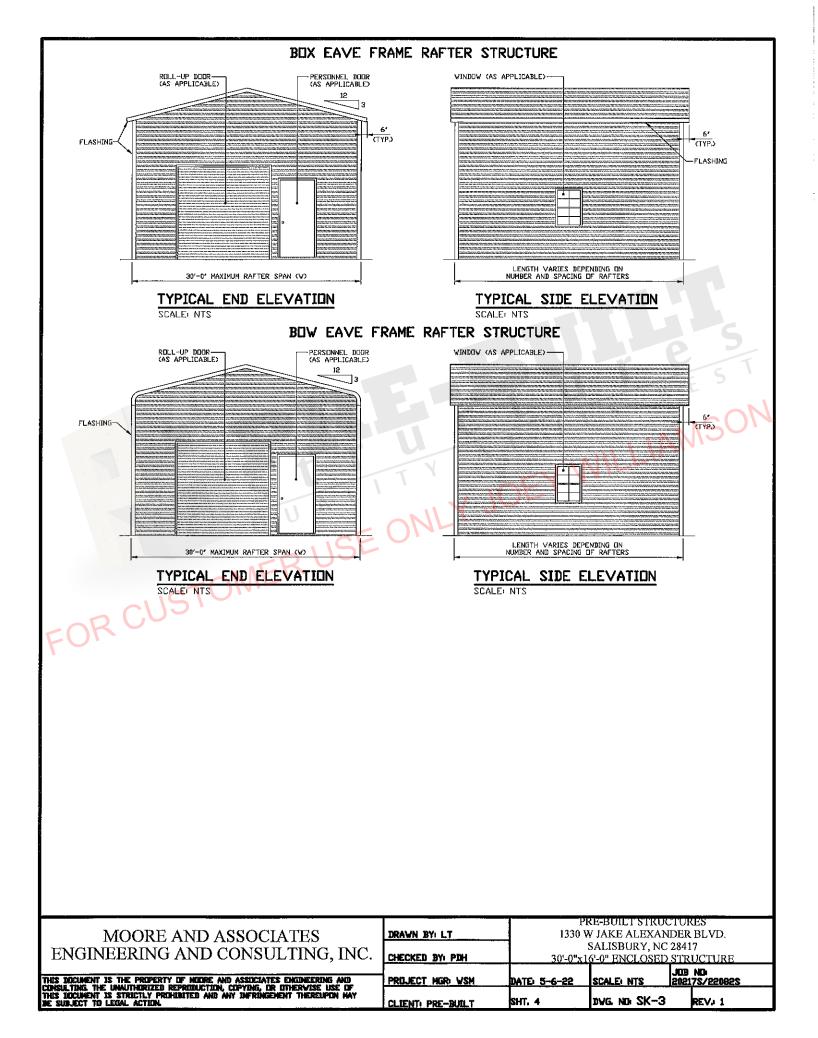
2018 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

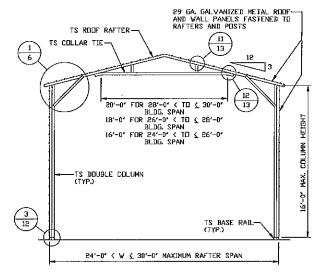
BUILDING CODE 2012 OF TENNESSEE (ADOPTS THE IBC 2012 WITH AMENDMENTS) BUILDING CODE 2018 OF NASHVILLE AND DAVIDSON COUNTY (ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 VIRGINIA CONSTRUCTION CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

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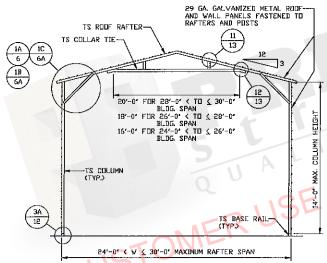
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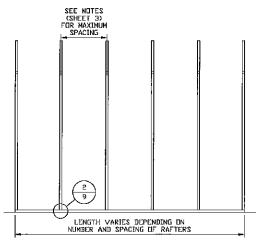
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

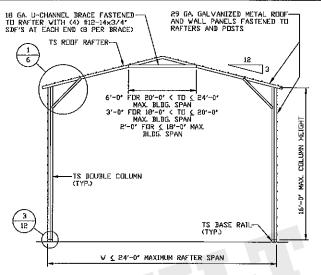


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

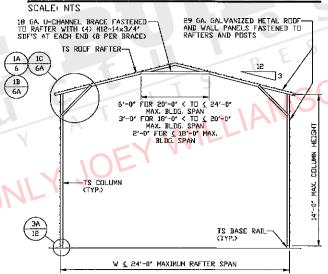
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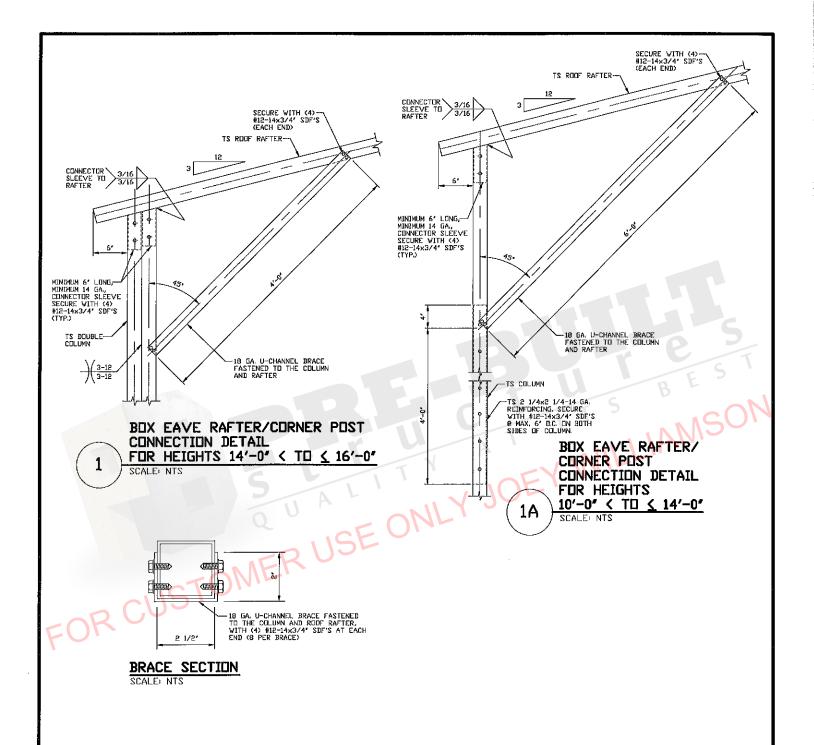


TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION

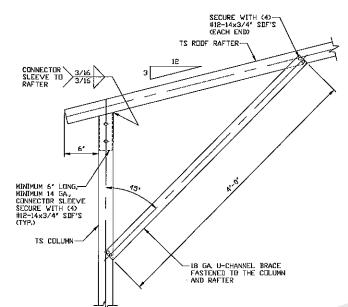
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0' < TO < 10'-0'

SECURE WITH (4)
#II2-14x3/4* SDF'S
CONNECTOR
SLEEVE TO 3/16
RAFTER

I2

SLEEVE TO 3/16
RAFTER

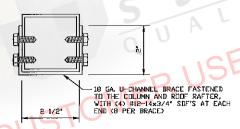
I2

SECURE WITH (4)
HI2-14x3/4* SDF'S
CONNECTOR SLEEVE
SECURE WITH (4)
HI2-14x3/4* SDF'S
TS COLUMN

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS \(8'-0")

SCALE NTS



BRACE SECTION

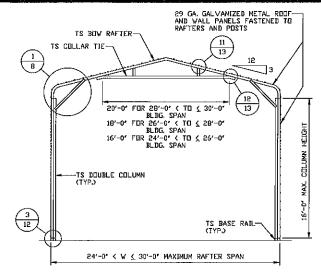
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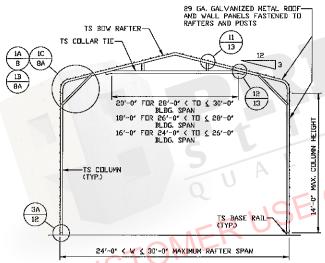
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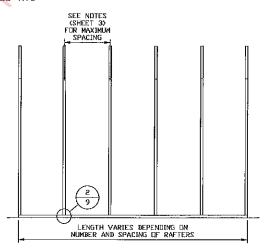
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TYPICAL RAFTER/COLUMN FRAME SECTION



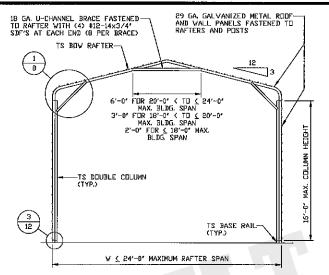
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

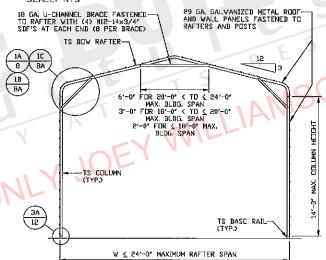
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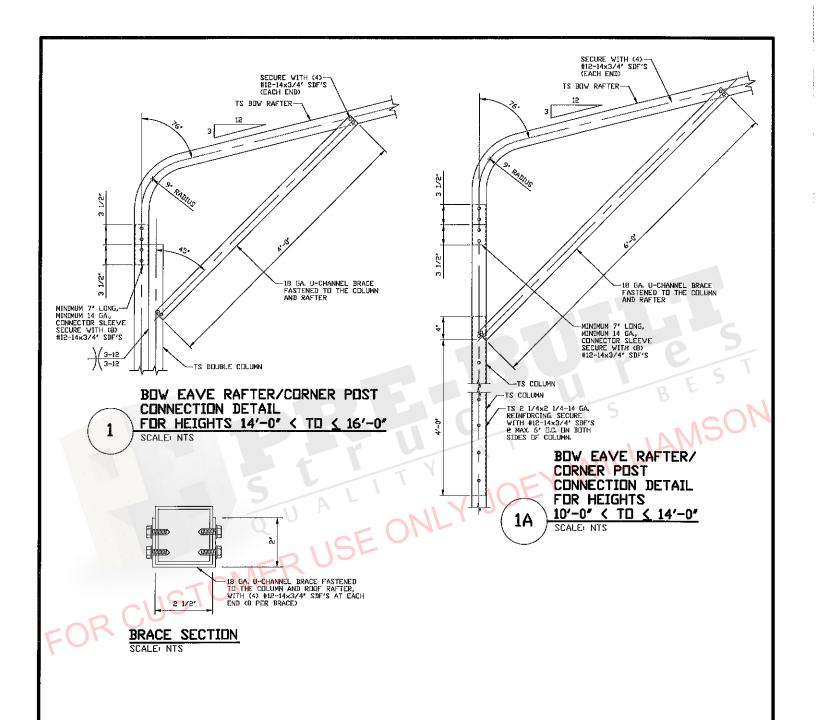
TYPICAL RAFTER/COLUMN FRAME SECTION

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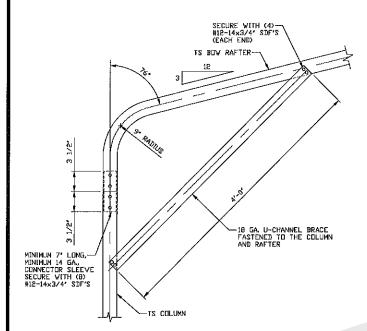


TYPICAL RAFTER/COLUMN FRAME SECTION

PRE-BUILT STRUCTURES



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BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 8'-0" < TO \(\) 10'-0"

18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF RAFTER, WITH (4) #12-14x3/4' SDF'S AT EACH END (8 PER BRACE)

BRACE SECTION
SCALE: NTS

SECURE WITH (4)— H12-14×3/4* SDF'S (EACH END) TS BEW RAFTER—
\$. 3 12
15 6480162
1 (
MINIMUM 7' LING.
m / / / / / / / / / / / / / / / / / / /
MINIMUM 14 GA., S
CONNECTOR SLEEVE 18 GA. U-CHANNEL BRACE SECURE WITH (8) FASTENED TO THE COLUMN
SECURE WITH (9) #I2-14x3/4' SDF'S AND RAFTER
⊥√⊥ TS COLUMN

BOW EAVE RAFTER/CORNER POST
CONNECTION DETAIL.
FOR HEIGHTS & 8'-0'
SCALE: NTS

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INSTALL 1/2°×6 1/2° EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6° OF WWF DR FIBERGLASS FIBERS EACH COLUMN (ALSO APPLICABLE TO END WALLS> VARI GRADE Δ MINIMUM 3 1/ **EMBEDMENT** (TYP.) MONOLITHIC CONCRETE FOOTING-(3000 PSI MIN.) REINFURCED WITH (2)-#4's CONTINUOUS 1'-0" VARIES

CONCRETE MONDLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4" CODRDINATE WITH LOCAL CODES/DRD. REGARDING MINIMUM FROST DEPTH REQ.

GENERAL NOTES

NOTE: CONCRETE MONDLITHIC SLAB DESIGN BASED ON MINIMUM SDIL 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:

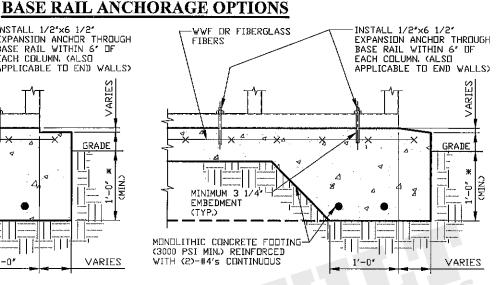
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

- 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:

- 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 LOUSE 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.

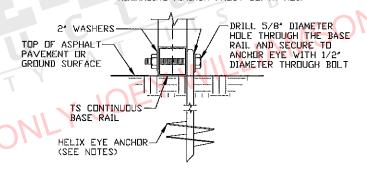


2A

CONCRETE SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4',

* COURDINATE WITH LOCAL CODES/ORD,
REGARDING MINIMUM FROST DEPTH REQ.



2B

GROUND BASE HELIX ANCHURAGE

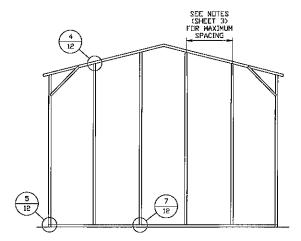
SCALE: NTS (CAN BE USED FOR ASPHALT) COORDINATE WITH LOCAL CODES/ORD. REGARDING MINIMUM FROST DEPTH REQ.

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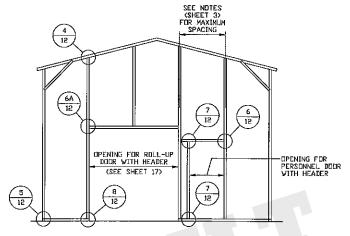
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



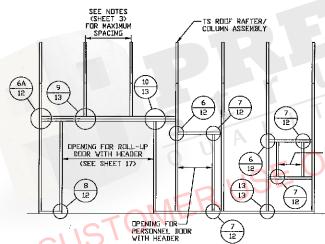
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

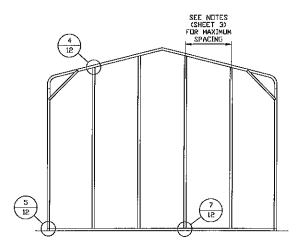


- PENING FOR VINDOW WITH HEADER AND WINDOW RAIL (ALSO APPLICABLE TO END WALLS)

TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION

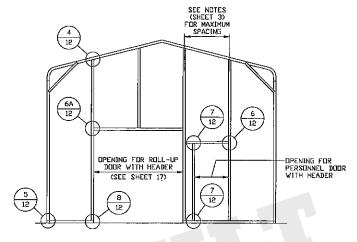
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MOORE AND ASSOCIATES	DRAWN BY: LT		RE-BUILT STRUCTU V JAKE ALEXANDEI	·-

BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



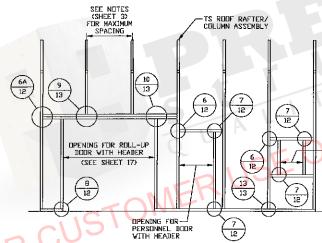
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

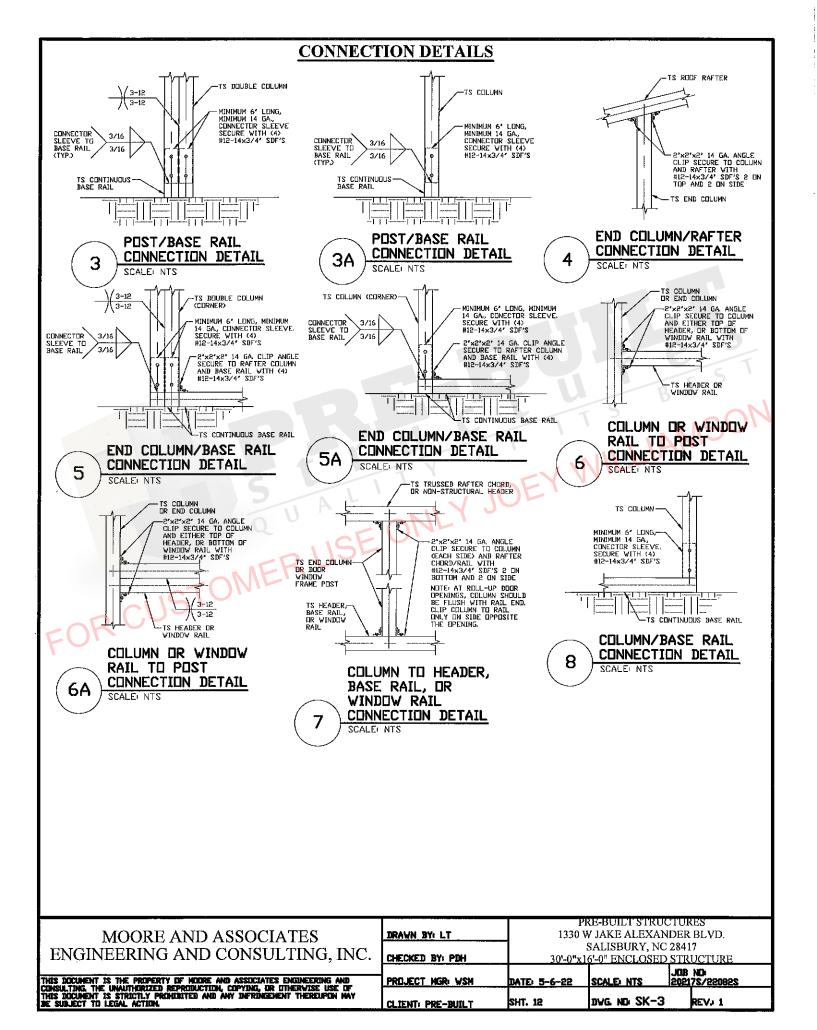


OPENING FOR WINDOW WITH HEADER AND WINDOW RAIL (ALSO APPLICABLE TO END WALLS)

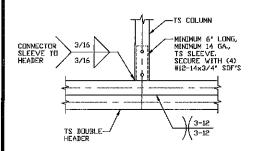
TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

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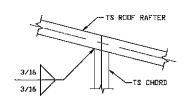
	CLIENT: PRE-BUILT	SHT, 11	DVG NO SK-3	REV. 1		
	PROJECT MGR: VSM	DATE: 5-6-22		ib No: 2175/22092s		
·.	CHECKED BY: PBH		SALISBURY, NC 28 6'-0" ENCLOSED ST			
	DRAWN BY: LT	1330 W	1330 W JAKE ALEXANDER BLVD,			
		Pŀ	Œ-BUILT STRUCTU	JRES		



CONNECTION DETAILS



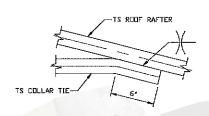
MINIMUM 6' LONG, MINIMUM 14 GA., CONNECTOR SLEEVE. SECURE EACH WITH (4) #12-14x3/4' SDF'S TS DOUBLE HEADER CONNECTOR SLEEVE TO HEADER 3/16 3/16 TS COLUMN



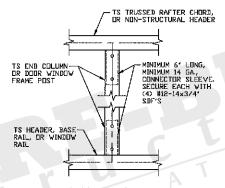
COLUMN/DOUBLE HEADER CONNECTION DETAIL 9

DOUBLE HEADER/COLUMN CONNECTION DETAIL 10

RAFTER TO CHORD CONNECTION DETAIL 11 SCALEL NTS



COLLAR TIE CONNECTION DETAIL 12



COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL SCALE: NTS FOR CUSTOMER USE

MOORE AND ASSOCIATES

ENGINEERING AND CONSULTING, INC.

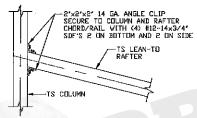
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PRE-BUILT STRUCTURES DRAWN BY: LT 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE CHECKED BY: PDH JOB NO: 20217\$/22082\$ PROJECT MGR: WSM DATE: 5-6-22 SCALE: NTS DVG. ND SK-3 SHT. 13 REV. 1 CLIENT: PRE-BUILT

BOX EAVE RAFTER LEAN-TO OPTIONS 15 14 14 14 14 15 16 ROUF EXTENSION MAIN STRUCTURE 2 3 12 9 12 9 12 9 12

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

SCALE: NTS
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'

SCALE: NTS

14

2'x2'x2' 14 GA. ANGLE CLIP
SECURE TO COLUMN AND RAFTER
CHORD/RAIL WITH (4) #12-14x3/4'
SDF'S 2 ON BOTTOM AND 2 ON SIDE

TS LEAN-TO
RAFTER

3-12

3-12

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

(14A)

SCALE: NTS

TS ROOF RAFTER

SECURE RAFTER TO NIPPLE
WITH (8) #12-14x3/4' SDF'S

TS EXTENSION
RAFTER

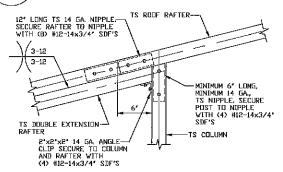
MINIMUM 14 GA,
TS NIPPLE, SECURE
PIGST TO NIPPLE
WITH (4) #12-14x3/4'
SDF'S

SDF'S

TS COLUMN

SIDE EXTENSION RAFTER COLUMN
15 DETAIL FOR SPANS & 12'-0'

SCALE: NTS



SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS 12'-0" < TO \leq 16'-0"

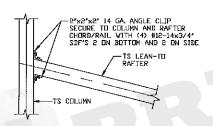
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ENGINEEDING AND CONGULTING INC	CHECKED BY: PDH		SALISBURY, NC 284 6'-0" ENCLOSED ST	
MOORE AND ASSOCIATES	DRAWN BY: LT		V JAKE ALEXANDE	

BOW EAVE RAFTER LEAN-TO OPTIONS 16 15 16 15 18 MAIN STRUCTURE 2 3 12 9 12

TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

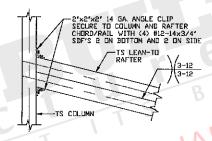
SCALE: NTS \\
REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS UTILIZED IN A LEAN-TO CONFIGURATION.

16A



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

16) SCALE: NTS



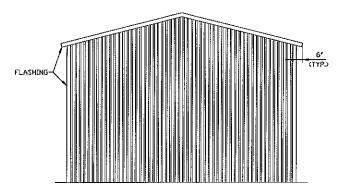
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL FOR
RAFTER SPANS 12'-0" < TO ≤ 16'-0"

SCALE: NTS

FOR CUSTOMER USE

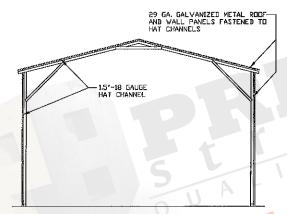
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		SALISBURY, NC 2 6'-0" ENCLOSED S	
MOORE AND ASSOCIATES	DRAWN BY: LT	1	KE-BUILT STRUC V JAKE ALEXANI	

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



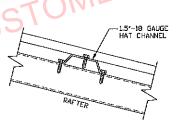
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



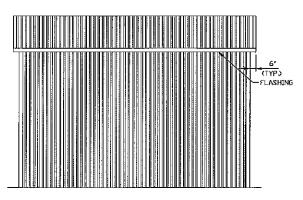
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



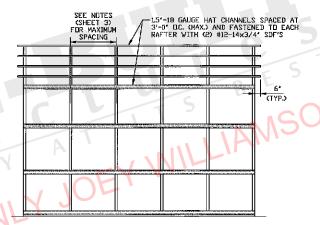
PANEL ATTACHMENT

(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

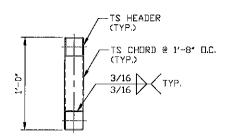
SCALE: NTS

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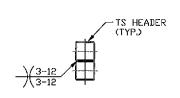
	CLIENT: PRE-BUILT	SHT. 16	DMC" NO 2K-3	REV. 1		
_	PROJECT MGR: VSM	DATE: 5-6-22		JOB NO 20217\$/22082\$		
	CHECKED BY: PDH	SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE				
	DRAWN BY: LT	1330 W JAKE ALEXANDER BLVD.				
		PRE-BUILT STRUCTURES				

SIDE WALL HEADER OPTIONS



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

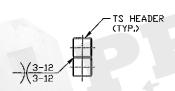
SCALE: NTS



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

SCALE: NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 14'-0" < LENGTH ≤ 16'-0" FOR CUSTOMER USE

TS HEADER

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

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ſ		DRAWN BY: LT	1	RE-BUILT STRUCT V JAKE ALEXANDI	