PRE-BUILT structures
QUALITY AT ITS BEST

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:

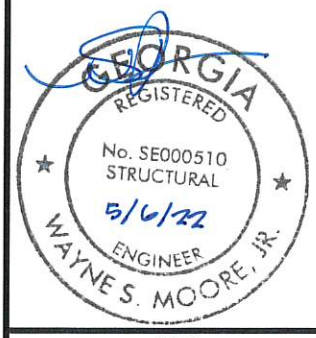
Pre-Built Structures
1330 W Jake Alexander Blvd.
Salisbury, NC 28417

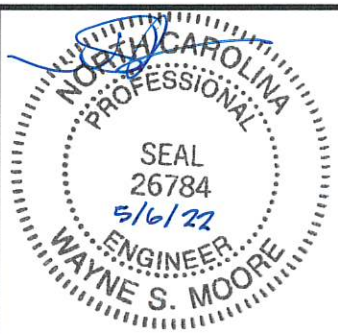
Prepared by:

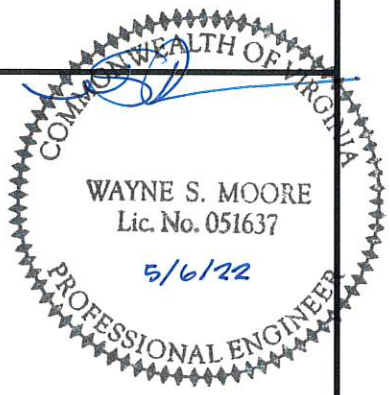
Moore and Associates Engineering and Consulting, Inc.
1009 East Avenue
North Augusta, SC 29841

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

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING







MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: PRE-BUILT

PRE-BUILT STRUCTURES
1330 W JAKE ALEXANDER BLVD.
SALISBURY, NC 28417
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 5-6-22 | SCALE: NTS | JOB NO: 20217S/22082S
SHT. 1 | DWG. NO: SK-3 | REV.: 1

DRAWING INDEX

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE		
CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/220802S
CLIENT: PRE-BUILT	SHT. 2	DWG. NO: SK-3	REV.: 1

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 = 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}) = $\leq$ 145 MPH (NOMINAL WIND SPEED = $\leq$ 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 (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). 2 1/4"x2 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 ON-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" OF EACH COLUMN.
15. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 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.
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:
    SOIL SITE CLASS = D
    RISK CATEGORY I
    R = 3.25 I_E = 1.0
    S_{DS} = 2.625 g V = C_SW
    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 PRIMARILY INTENDED FOR CONSTRUCTION PERMIT. WHEN APPLYING FOR BUILDING PERMIT, THE CERTIFIED BUILDING OFFICIAL 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 ANALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.**

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT CHECKED BY: PDH	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE		
	PROJECT MGR: WSH	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/220825
	CLIENT: PRE-BUILT	SHT. 3	DWG. NO: SK-3	REV: 1

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
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 NORTH CAROLINA BUILDING CODE
(ADOPTS 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)

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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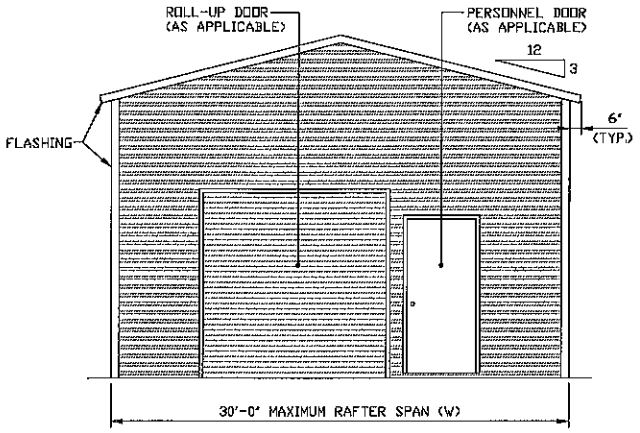
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: PRE-BUILT

PRE-BUILT STRUCTURES
1330 W JAKE ALEXANDER BLVD.
SALISBURY, NC 28417
30'-0"x16'-0" ENCLOSED STRUCTURE

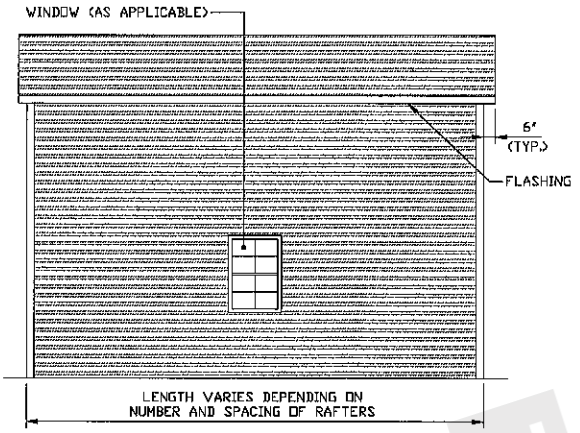
DATE: 5-6-22 | SCALE: NTS | JOB NO: 20217S/22082S
SHT. 3A | DWG. NO: SK-3 | REV: 1

BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

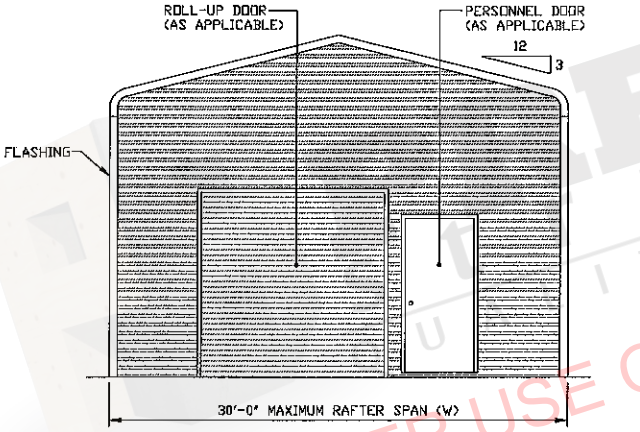
SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

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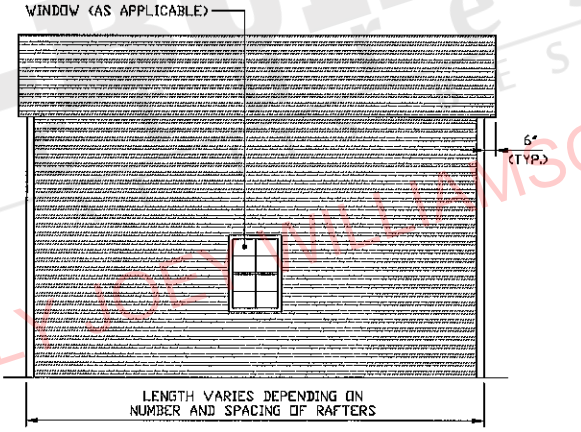

TYPICAL SIDE ELEVATION

SCALE: NTS

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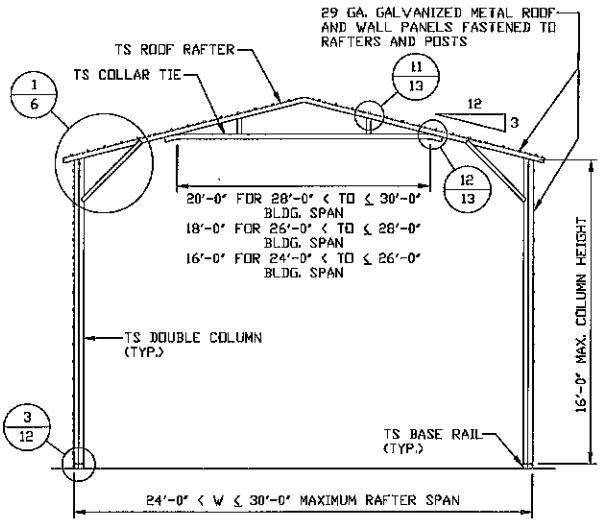
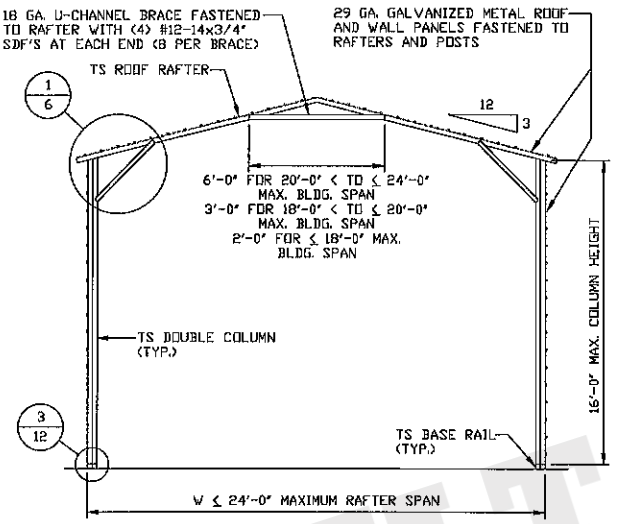
	CLIENT: PRE-BUILT	SHT. 4	DWG. NO: SK-3	REV.: 1



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

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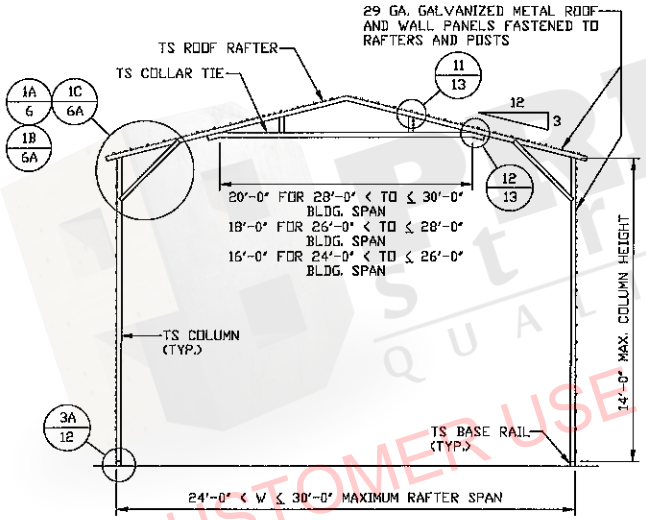

TYPICAL RAFTER/COLUMN FRAME SECTION

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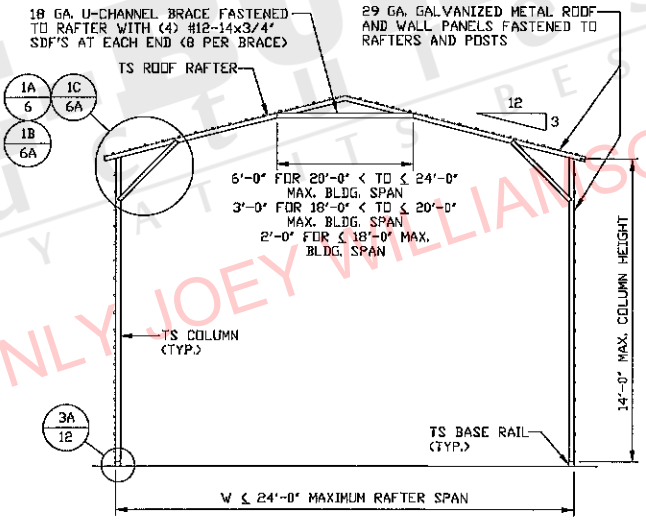

TYPICAL RAFTER/COLUMN FRAME SECTION

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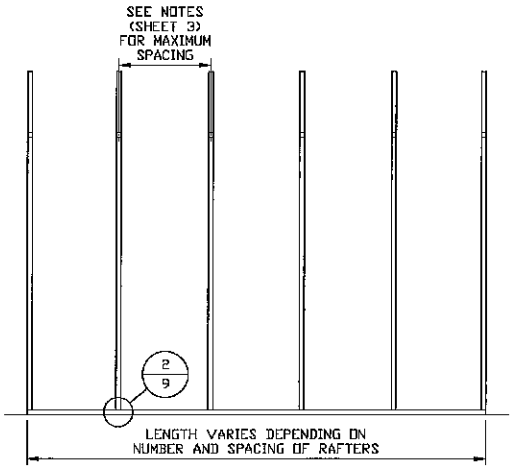

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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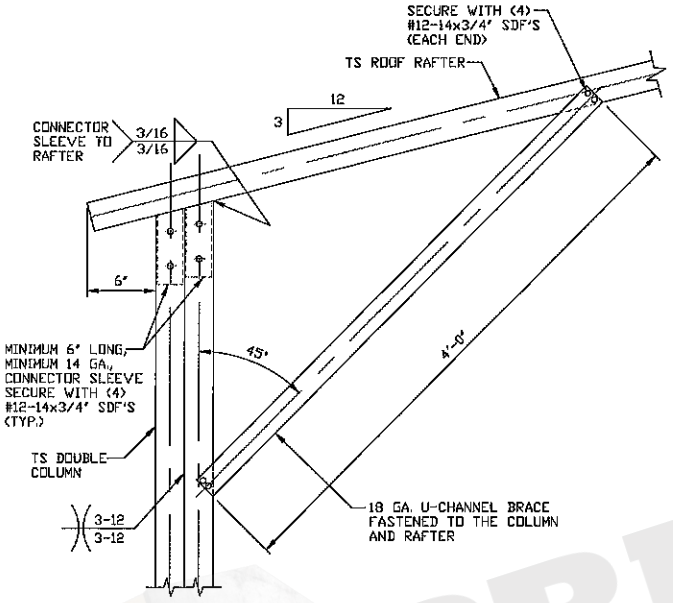
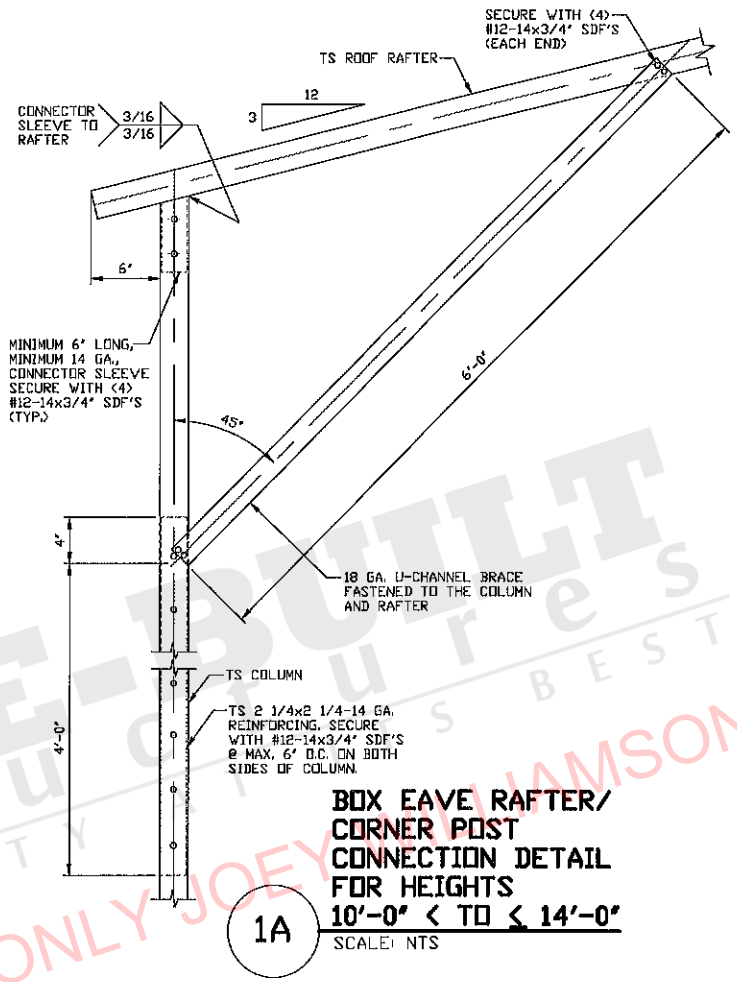
	CLIENT: PRE-BUILT	SHT. 5	DWG. NO: SK-3	REV.: 1



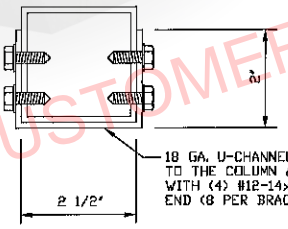
1 BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 16'-0"

SCALE: NTS



1A BOX EAVE RAFTER/ CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 14'-0"

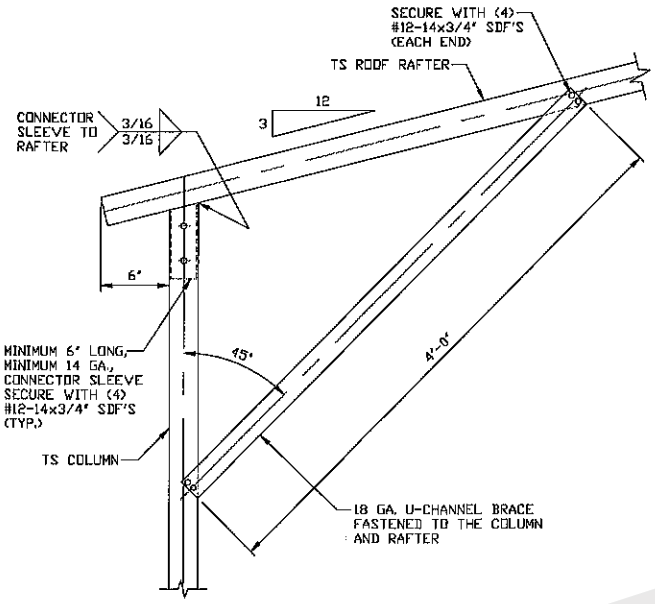
SCALE: NTS



BRACE SECTION

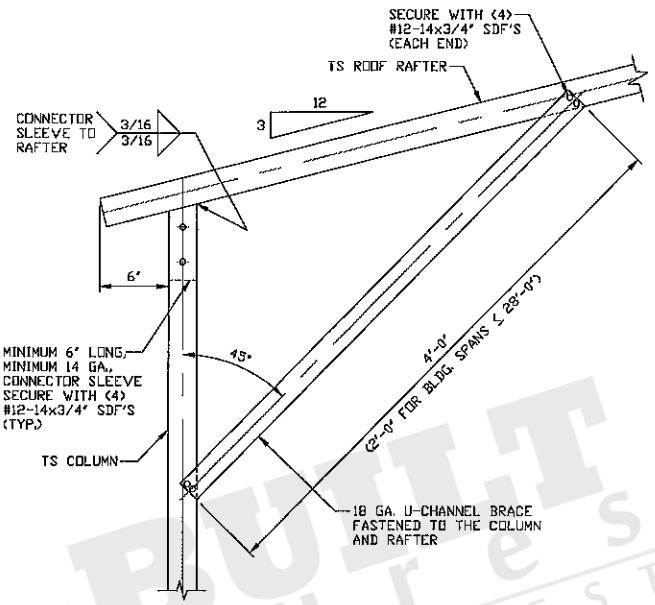
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 6	DWG. NO: SK-3	REV.: 1



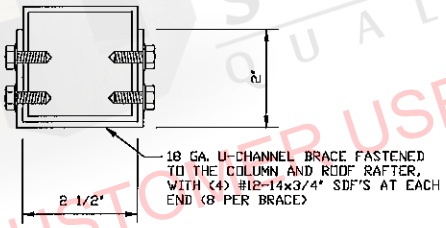
1B BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 10'-0"

SCALE: NTS



1C BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

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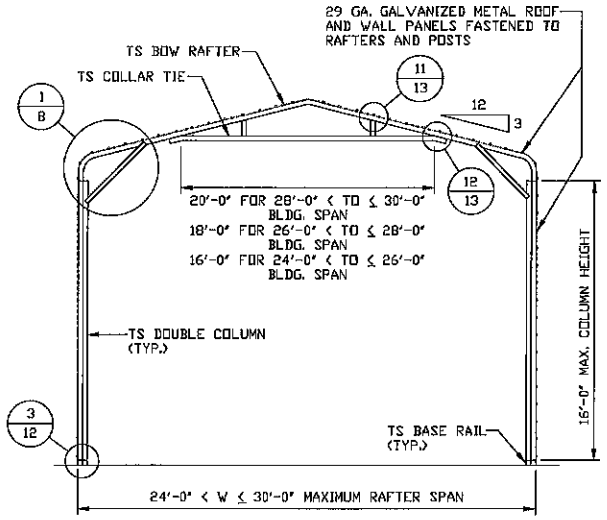
	PROJECT MGR: WSM	DATE: 5-6-22 / SCALE: NTS	JOB NO: 20217S/22092S
	CLIENT: PRE-BUILT	SHT. 6A / DWG. NO: SK-3	REV.: 1



TYPICAL RAFTER/COLUMN FRAME SECTION

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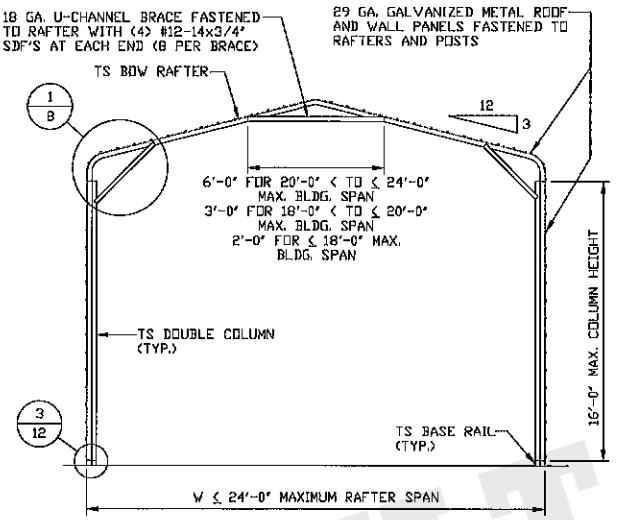

TYPICAL RAFTER/COLUMN FRAME SECTION

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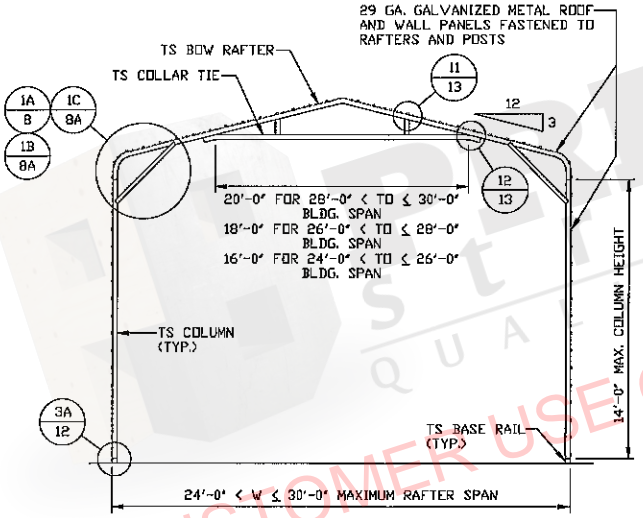

TYPICAL RAFTER/COLUMN FRAME SECTION

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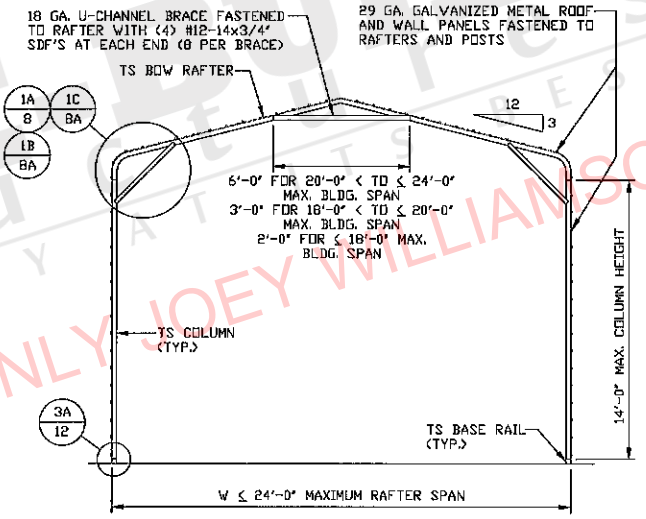

TYPICAL RAFTER/COLUMN FRAME SECTION

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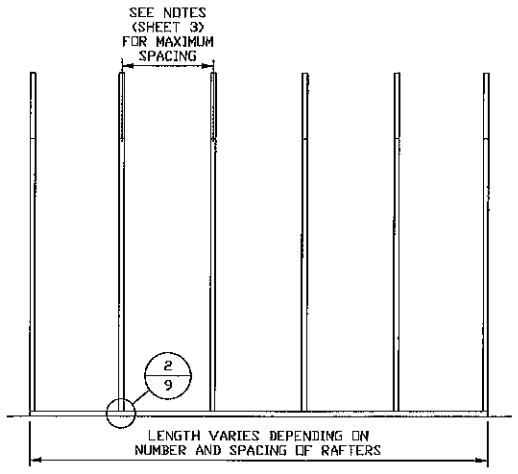

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
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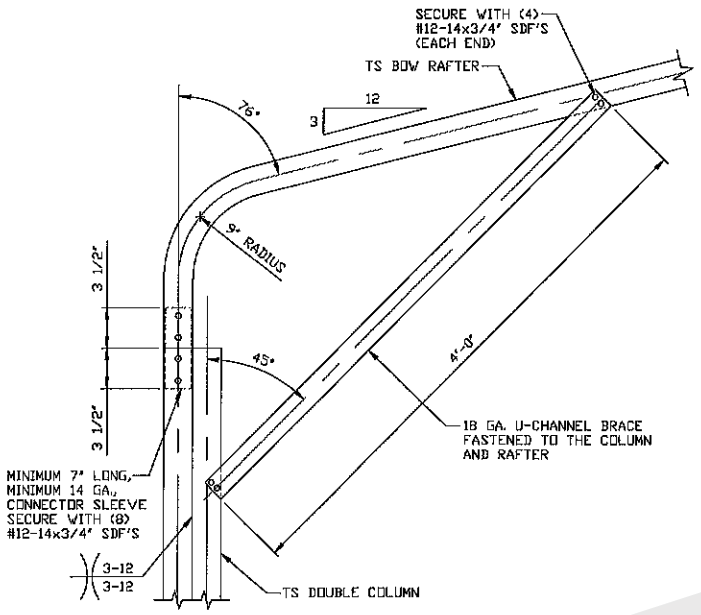
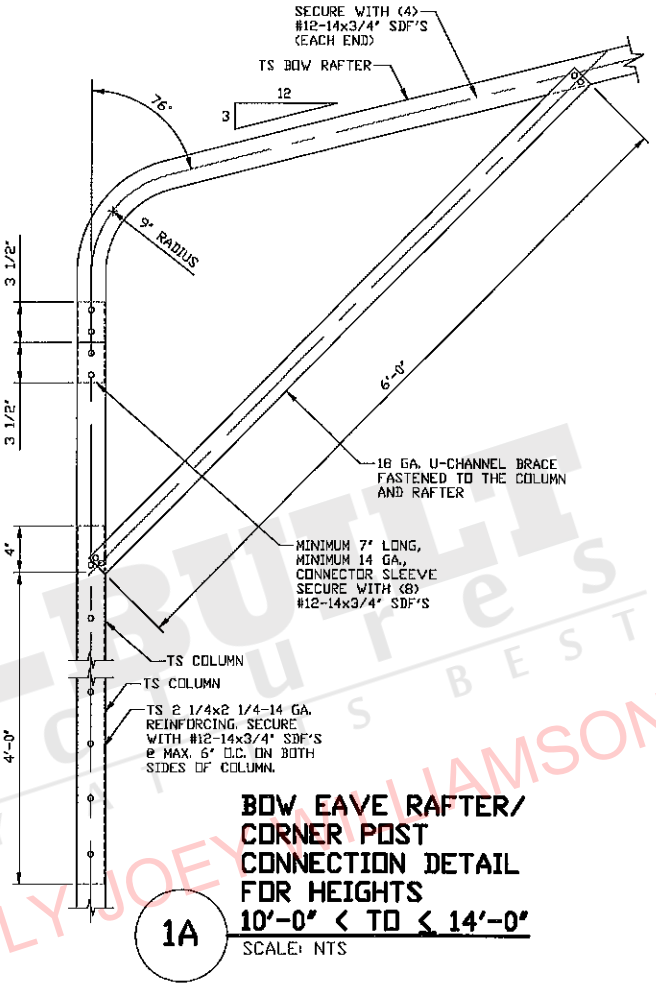
	PROJECT MGR: WSH	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 7	DWG. NO: SK-3	REV.: 1



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 16'-0"

1

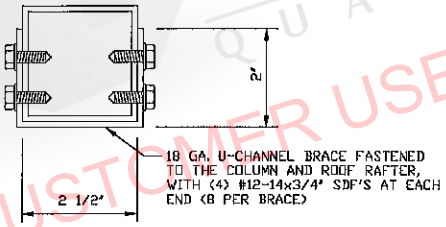
SCALE: NTS



BOW EAVE RAFTER/ CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 14'-0"

1A

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE		
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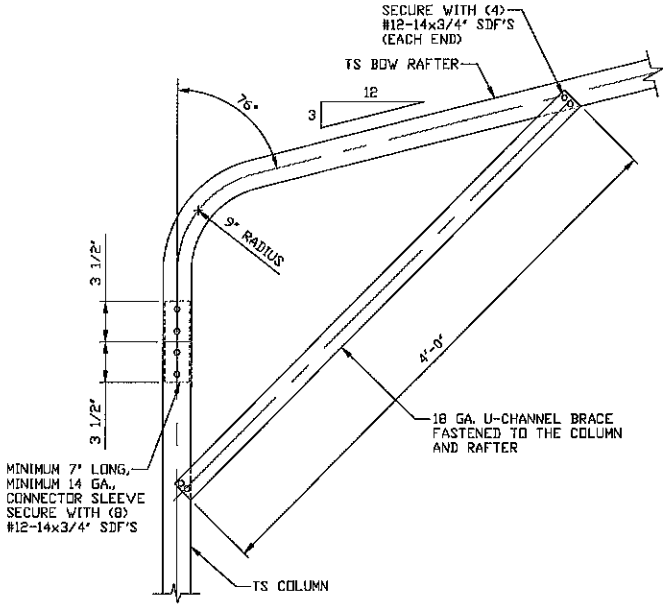
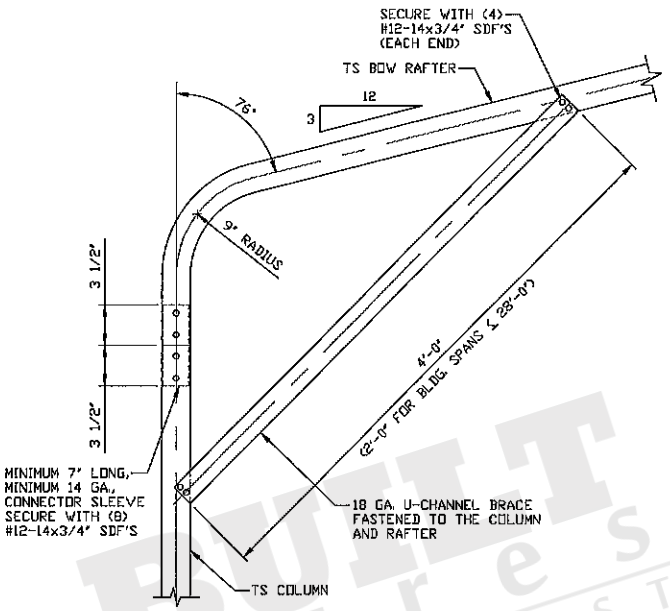
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 8	DWG. NO: SK-3	REV.: 1



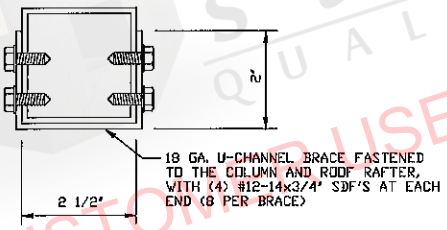
1B **BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 10'-0"**

SCALE: NTS



1C **BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0"**

SCALE: NTS



BRACE SECTION

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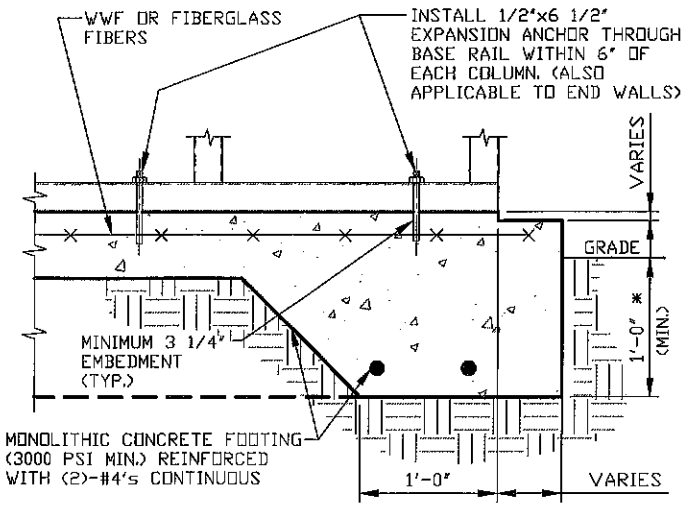
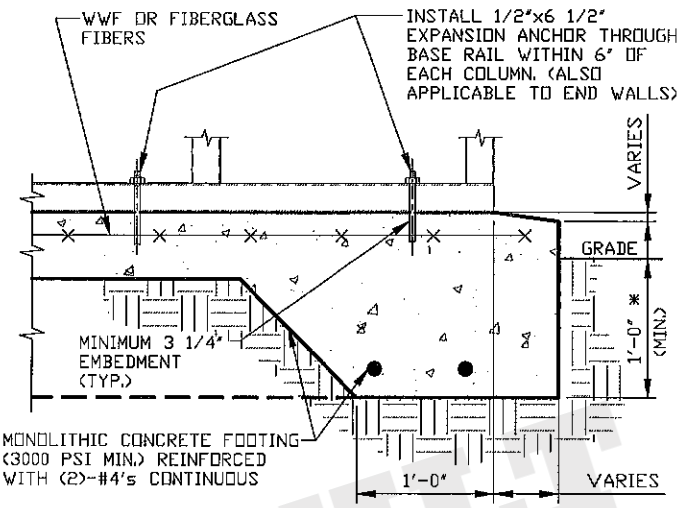
BASE RAIL ANCHORAGE OPTIONS



2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL CODES/ORD. REGARDING MINIMUM FROST DEPTH REQ.



2A CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: 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:

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:

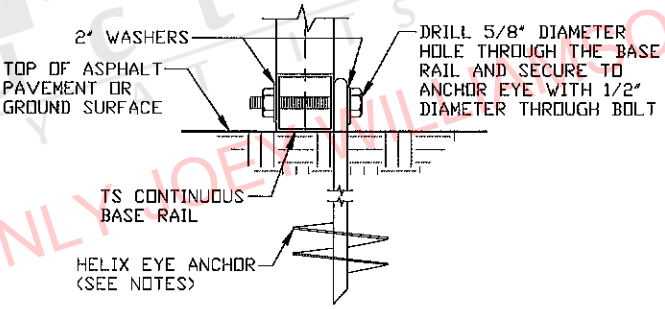
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

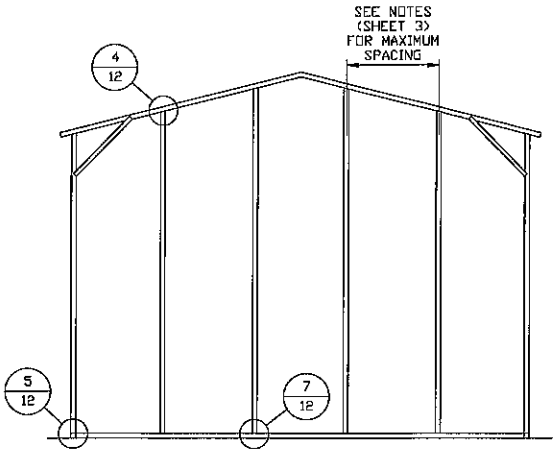


2B GROUND BASE HELIX ANCHORAGE

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

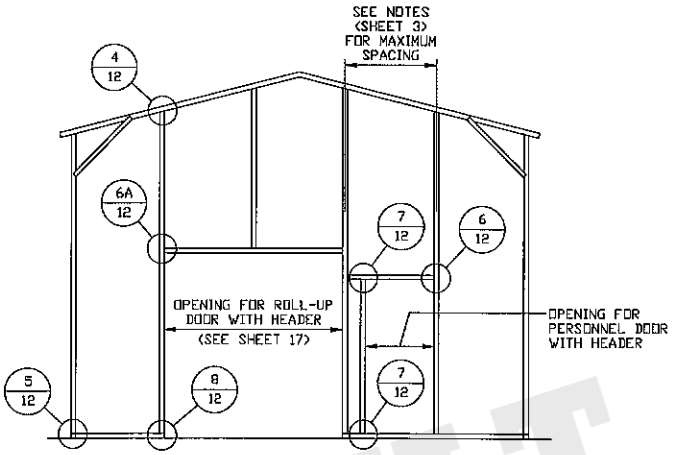
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22062S
	CLIENT: PRE-BUILT	SHT. 9	DWG. NO: SK-3	REV: 1

BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



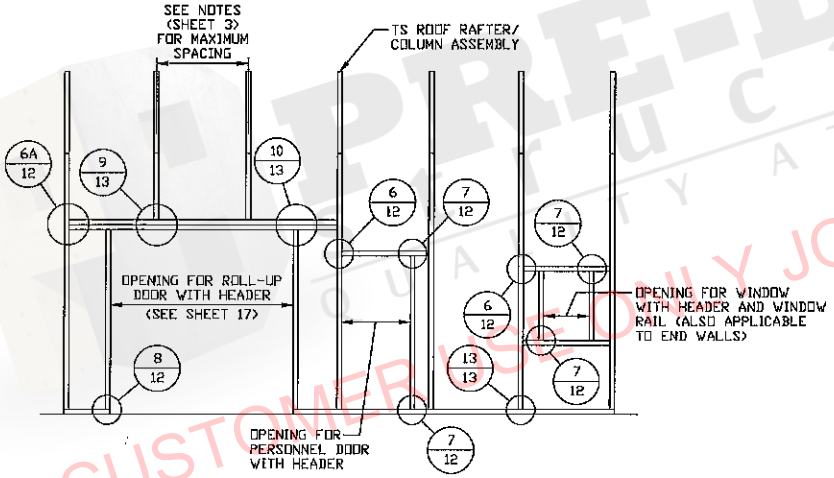
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

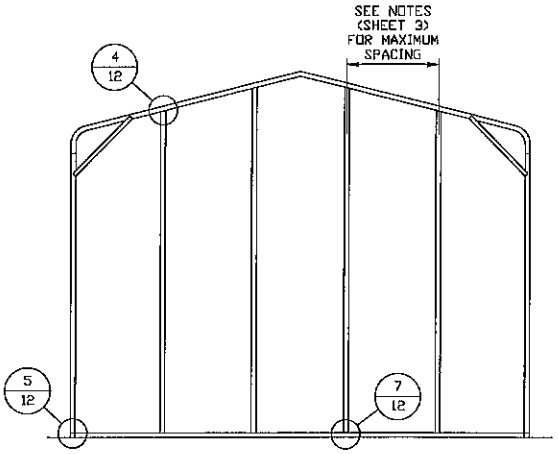


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

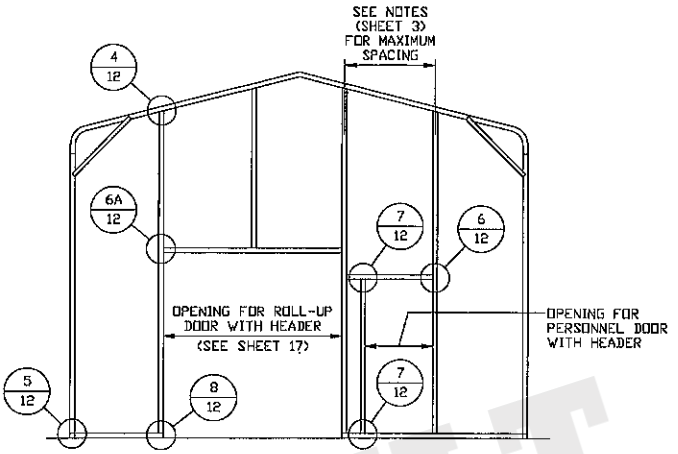
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS / JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 10	DWG. NO: SK-3 / REV.: 1

BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



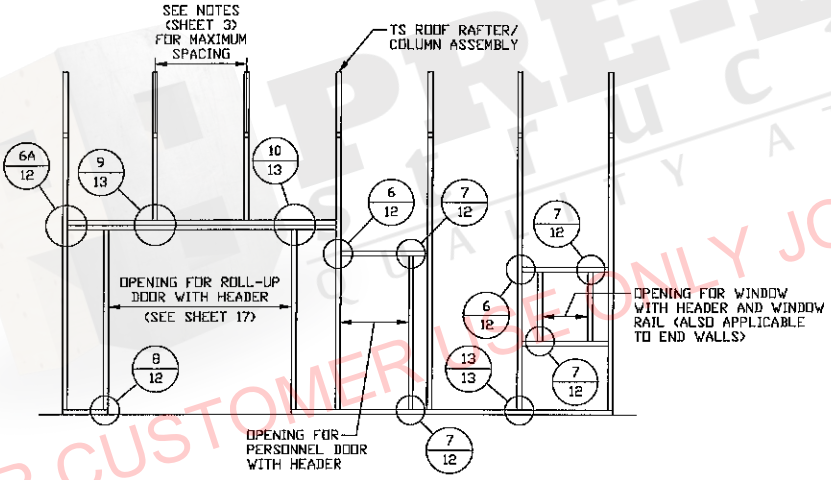
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

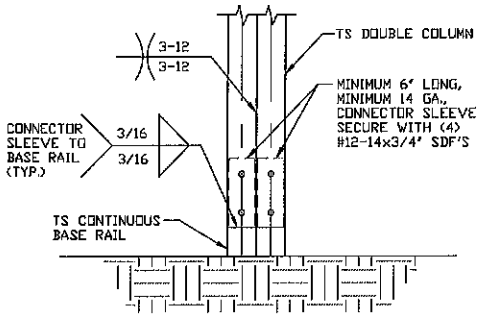


TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

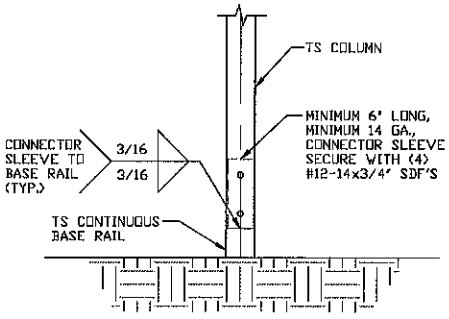
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
	CHECKED BY: PDH		
	PROJECT MGR: WSN	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 11	DWG. NO: SK-3	REV: 1

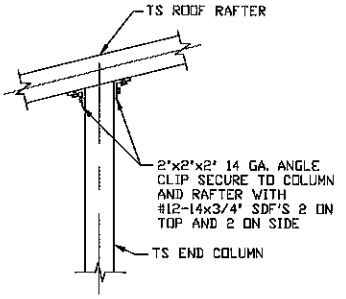
CONNECTION DETAILS



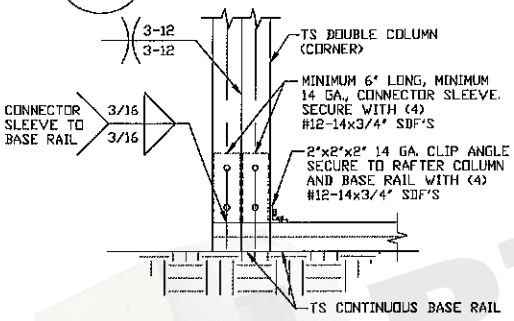
3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



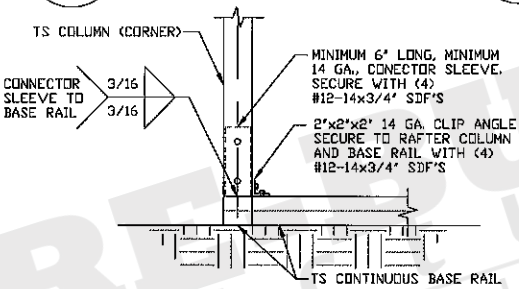
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



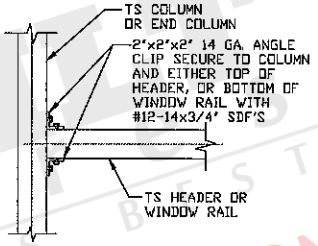
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



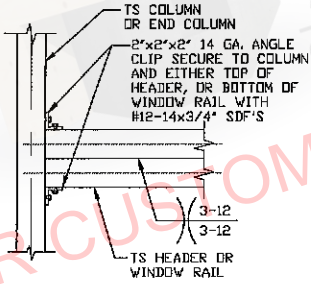
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



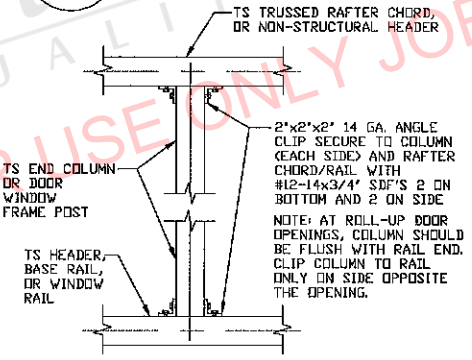
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



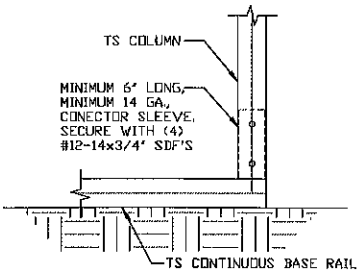
6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



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



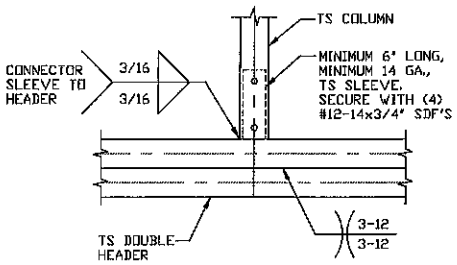
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



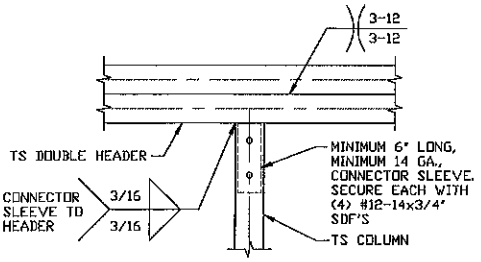
8 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS / JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 12	DWG. NO: SK-3 / REV: 1

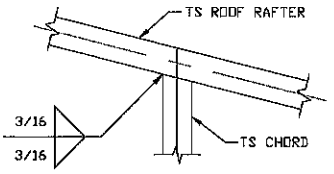
CONNECTION DETAILS



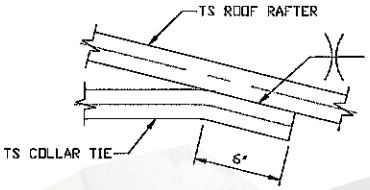
9 **COLUMN/DOUBLE HEADER CONNECTION DETAIL**
SCALE: NTS



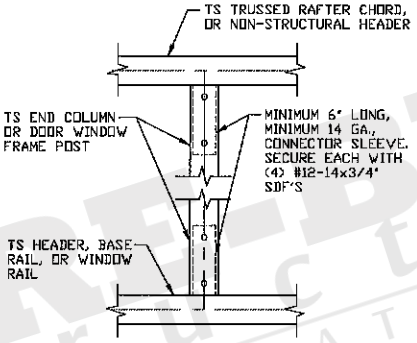
10 **DOUBLE HEADER/COLUMN CONNECTION DETAIL**
SCALE: NTS



11 **RAFTER TO CHORD CONNECTION DETAIL**
SCALE: NTS



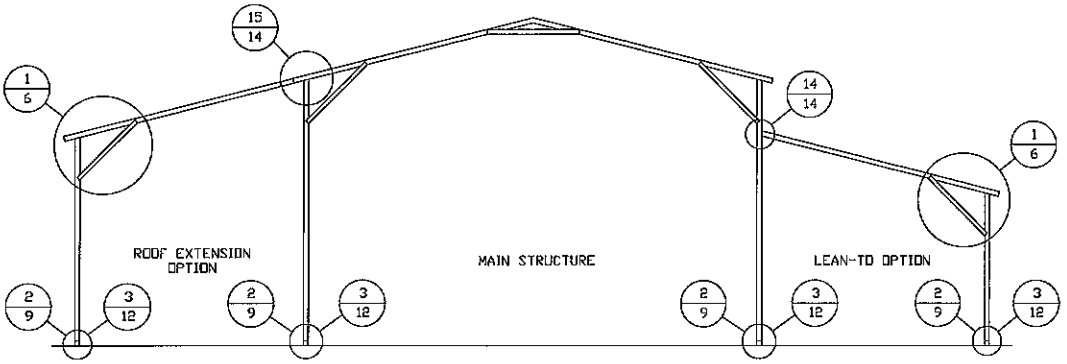
12 **COLLAR TIE CONNECTION DETAIL**
SCALE: NTS



13 **COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL**
SCALE: NTS

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

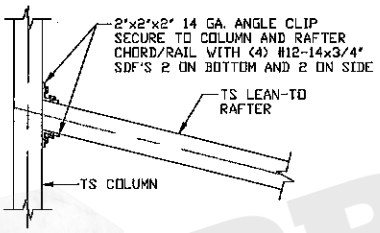
BOX EAVE RAFTER LEAN-TO OPTIONS



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

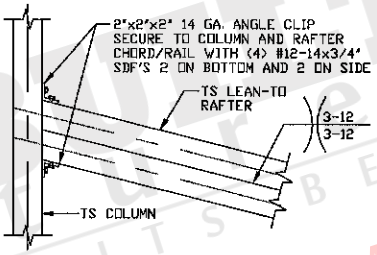
SCALE: NTS

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



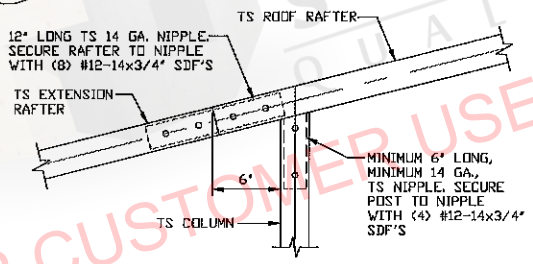
14 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 12'-0"

SCALE: NTS



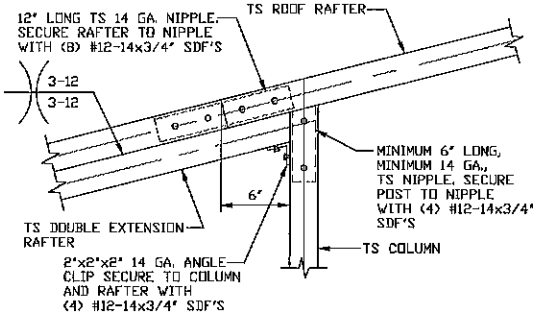
14A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"

SCALE: NTS



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

SCALE: NTS

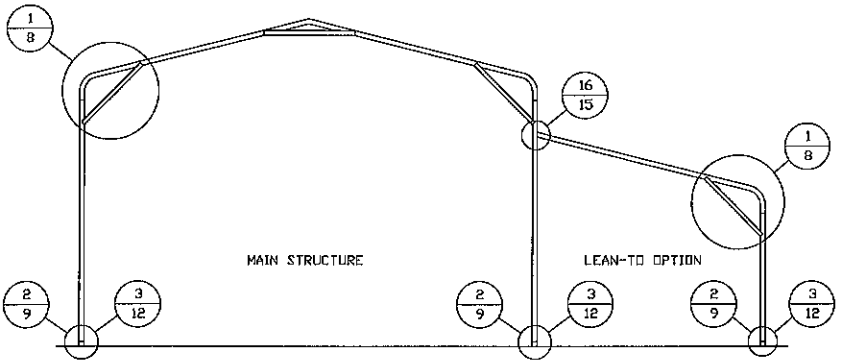


15A SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS 12'-0" < TO ≤ 16'-0"

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22062S
	CLIENT: PRE-BUILT	SHT. 14	DWG. NO: SK-3	REV.: 1

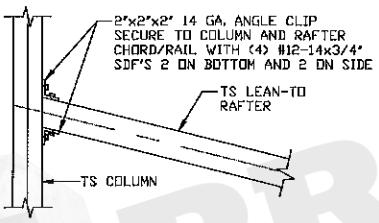
BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

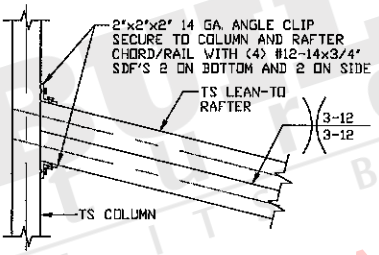
SCALE: NTS

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



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

SCALE: NTS

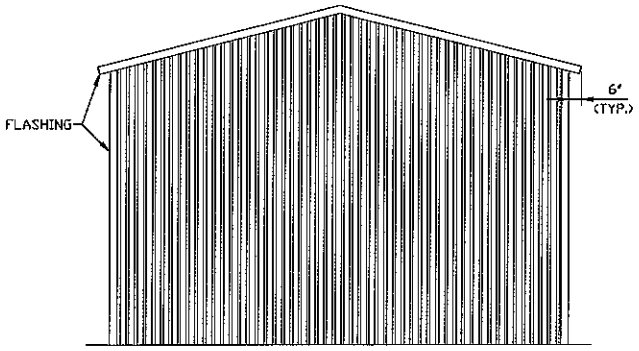


16A **LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"**

SCALE: NTS

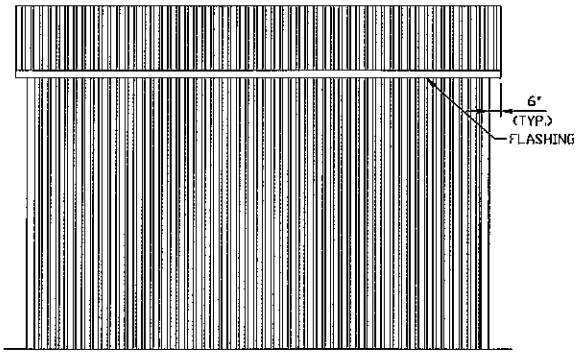
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE		
	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 15	DWG. NO: SK-3	REV.: 1

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



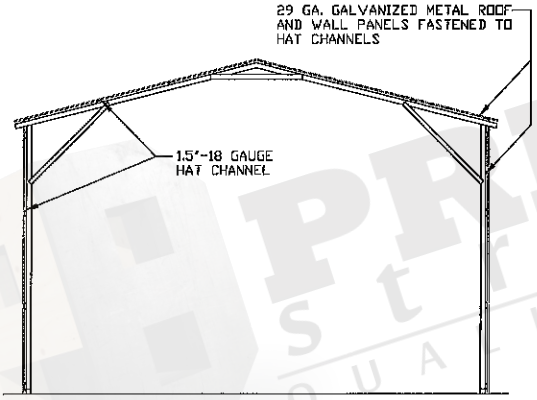
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



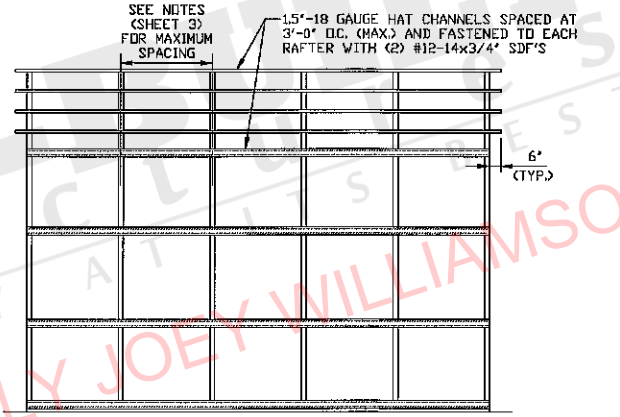
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



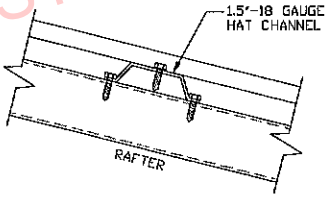
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION WITH TS GIRTS

SCALE: NTS

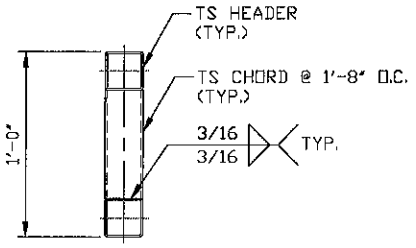


PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

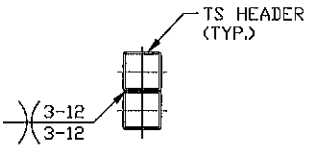
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE	
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 16	DWG. NO: SK-3	REV.: 1

SIDE WALL HEADER OPTIONS



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

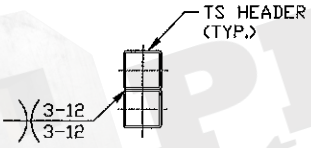
SCALE: NTS



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

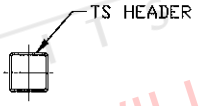
SCALE: NTS

END WALL HEADER OPTIONS



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

SCALE: NTS



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

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	PRE-BUILT STRUCTURES 1330 W JAKE ALEXANDER BLVD. SALISBURY, NC 28417 30'-0"x16'-0" ENCLOSED STRUCTURE		
	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 5-6-22	SCALE: NTS	JOB NO: 20217S/22082S
	CLIENT: PRE-BUILT	SHT. 17	DWG. NO: SK-3	REV.: 1