

ENCLOSED BUILDING STANDARD PACKAGE STRUCTURAL DESIGN

BOX EVAE EKVME VAD BOM EKVME WYXIMAW 30,- 0,, MIDE X 50,- 0,, HEICHL-

7 January 2020 Revision 0 M&A Project No. 19294S

Prepared for:

Best Metal Buildings, LLC 484 NW Turner Avenue Lake City, Florida 32055

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

401 South Main Street, Suite 200 Mount Airy, NC 27030 Digitally signed by Wayne S Moore Date: 2020.01.07 12:27:23



MOORE AND ASSOCIATES



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MOORE AND ASSOCIATES	DRAWN BY: JG	_ 4	ST METAL BUILD 84 NW TURNER A AKE CITY, FLORII	VENUE
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		30-0"x20'-0" SP ENCLOSED STRUCTUR	
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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 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2015 IBC, AND 2012 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LUAD

B) LIVE LOAD

- = 12 PSF
- C) GROUND SNOW LOAD = 10 PSF (UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED).
- 4. LOW ULTIMATE WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH) MAXIMUM RAFTER/POST AND END COLUMN SPACING = 5.0 FEET.
- 5. HIGH ULTIMATE WIND SPEED (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH): MAXIMUM RAFTER/POST AND END COLUMN SPACING = 4.0 FEET.
- 6. END WALL COLUMNS (POST) ARE EQUIVALENT IN SIZE AND SPACING TO SIDE WALL POSTS (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I.
- 8, WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2*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.
- 10. AVERAGE FASTENER SPACING DN-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° D.C. (MAX.) FOR LOW WIND AND 6° D.C. (MAX.) FOR HIGH WIND.
- 11. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.

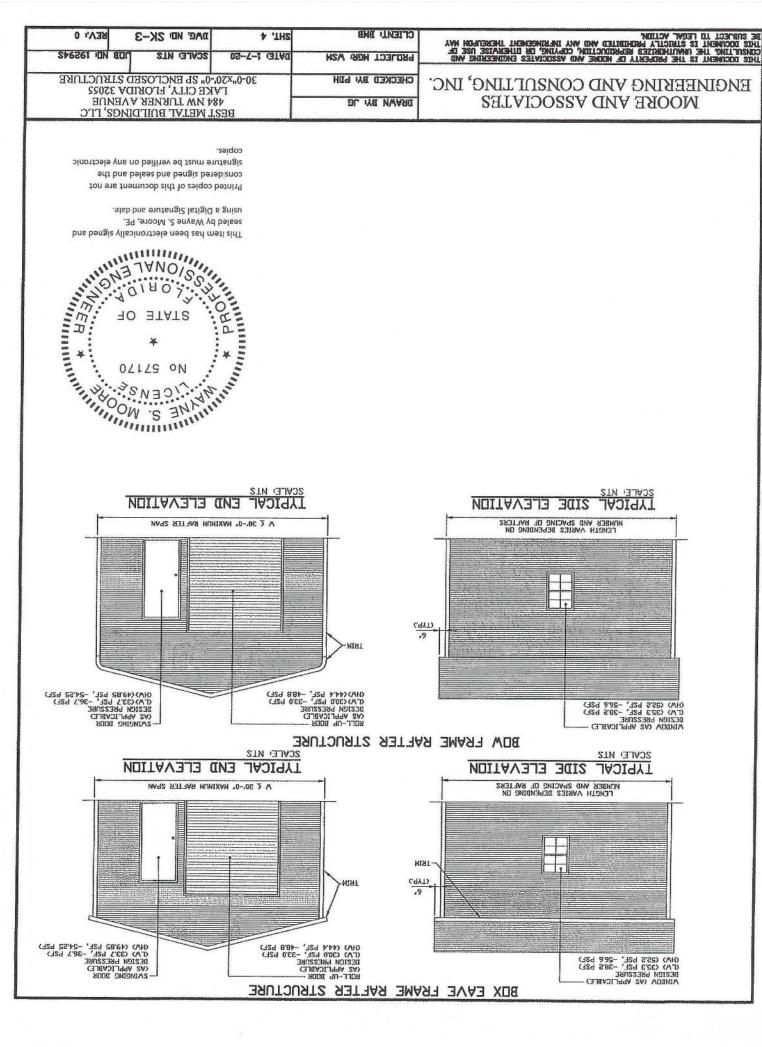
 SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOFING WITH SLOPES LESS THAN 3:12 MUST BE LAP SEALANT.
- 12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES.
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND ARE APPLICABLE ONLY IN MEDIUM TO STIFF SOILS (SUITABLE SOILS). HELIX ANCHORS, SEE DETAIL 2B, MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. STANDARD GROUND ANCHORS ARE ONLY ALLOWED FOR LOW WIND APPLICATIONS.
- 14. VIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED AREA SUIL SITE CLASS = D RISK CATEGORY I

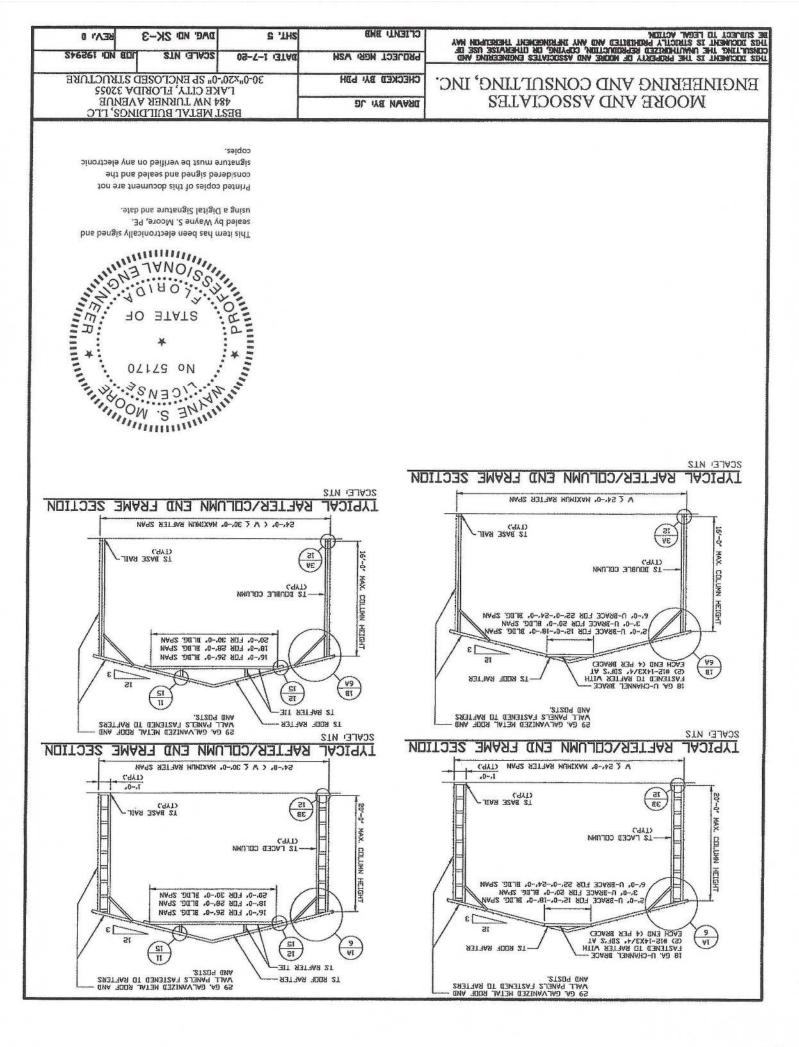
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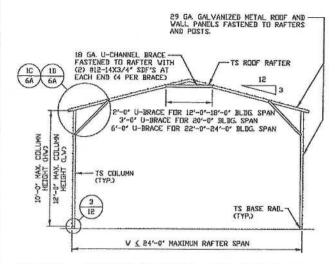
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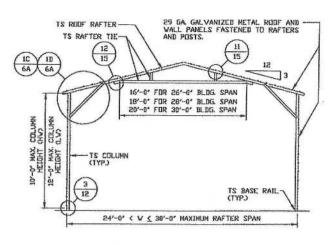
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MOORE AND ASSOCIATES	DRAWN BY: JG	4	BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE			



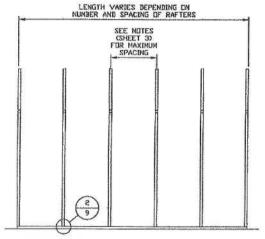




TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

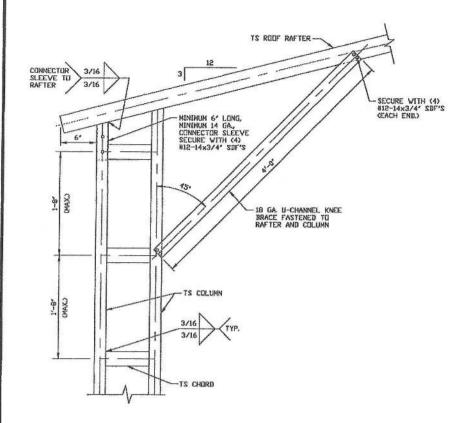


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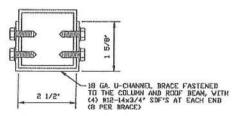
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1A DETAIL
SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"

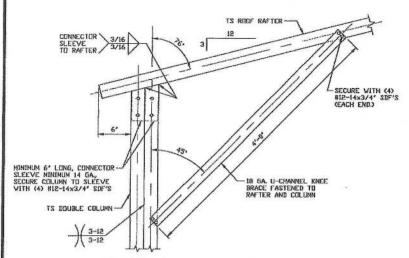


BRACE SECTION
SCALE: NTS



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CONNECTOR 3/16
SLEEVE
TO RAFTER 3/16

6'

SECURE WITH (4)
BI2-14x3/4' SDF'S

KNEE BRACE
FASTENED TO
RAFTER AND
COLUMN

TS COLUMN

COLUMN

BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 10'-0" < TO < 16'-0" (HW)
AND HEIGHTS 12'-0" < TO < 16'-0" (LW)

TS ROOF RAFTER

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 8'-0" (HW), AND HEIGHTS & 10'-0" (LW)

TS ROOF RAFTER

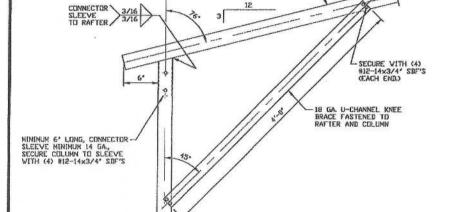
SCALE: NTS

1C

18 GA. U-CHANNEL BRACE FASTENED
TO THE COLUMN AND ROOF BEAK, WITH
(4) NI2-14x3/4* SBF'S AT EACH END
(6) PER BRACE)

SCALE: NTS

1D



BRACE SECTION SCALE: NTS



BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 8'-0" < TO < 10'-0" (HW)
AND HEIGHTS 10'-0" < TO < 12'-0" (LW)
SCALE NTS

TS COLUMN

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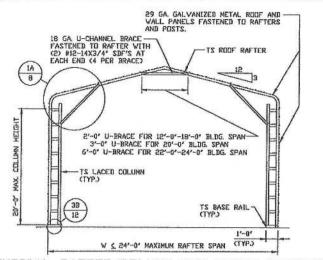
, INC. CHECKED BY: PDH

BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE LAKE CITY, FLORIDA 32055 30-0"x20'-0" SP ENCLOSED STRUCTURE

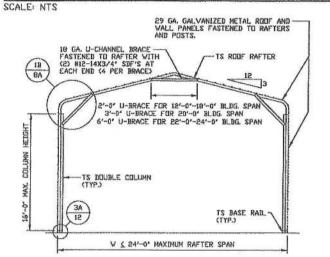
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CLIENT: BMB

DATE: 1-7-20 SHT, 6A SCALE NTS UDB ND 19294S DWG. ND: SK-3 REV: 0

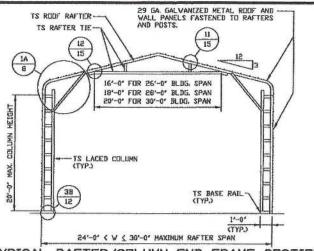
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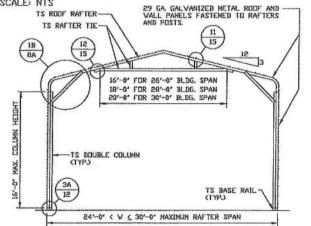
TYPICAL RAFTER/COLUMN END FRAME SECTION



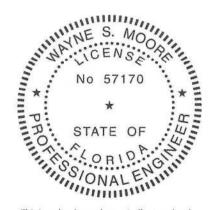
TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

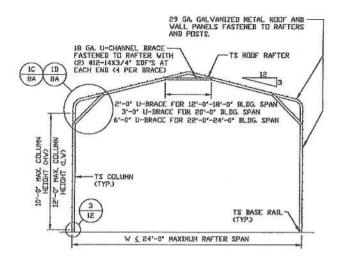


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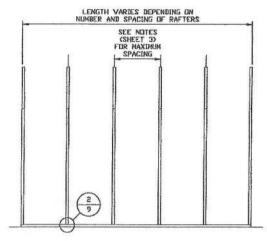
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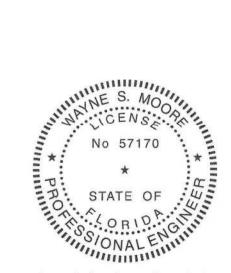
TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE NTS

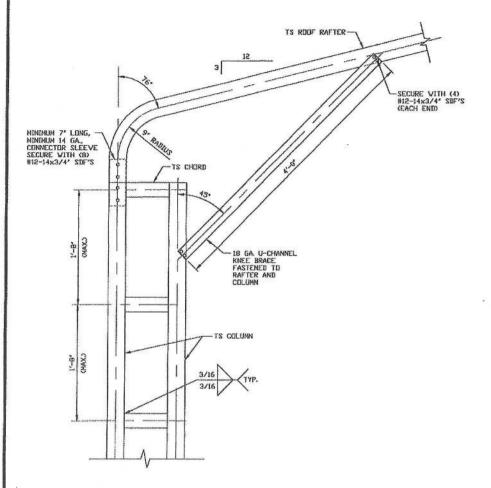


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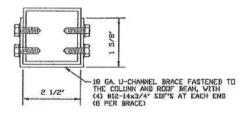
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BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0" < TO \(\) 20'-0"



BRACE SECTION
SCALE: NTS

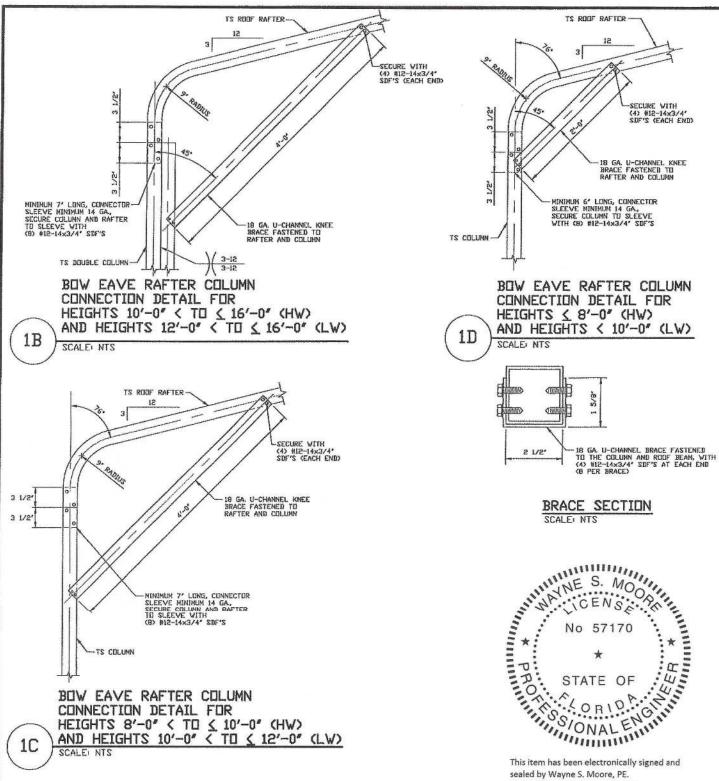


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DRAWN BY: JG	BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE					



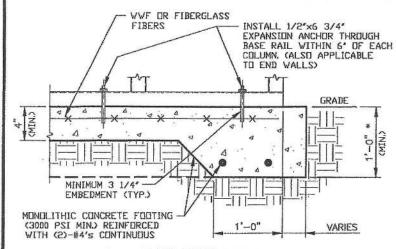
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SECURE WITH (4) #12-14x3/4' SDF'S (EACH END)

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BASE RAIL ANCHORAGE OPTIONS





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REGUIRED 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 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.

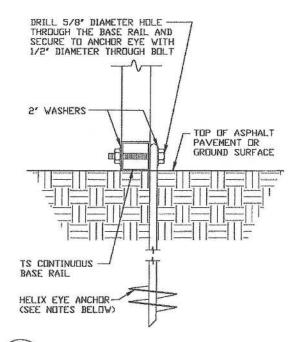
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 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.
- BAR, 15 NOT LESS THAN STATEMENT DIAMETERS.

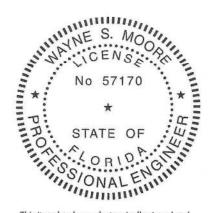
 REINFURCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, CHARSE 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
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 3. FOR MEDIUM DENSE CHARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
- FOR 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 LODSE 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)



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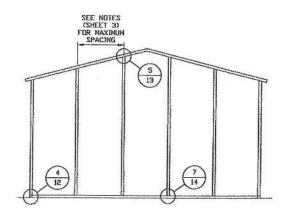
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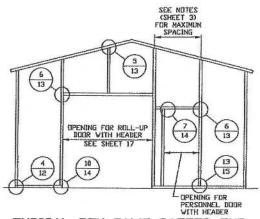
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS

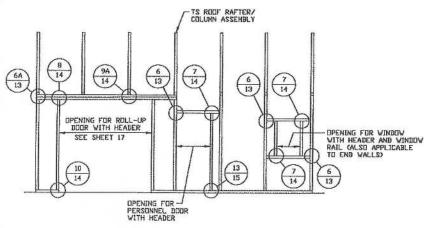


TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BUX EAVE RAFTER END WALL OPENINGS FRAMING SECTION SCALE NTS



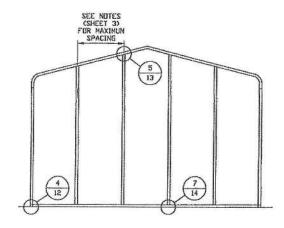
TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION
SCALE NTS



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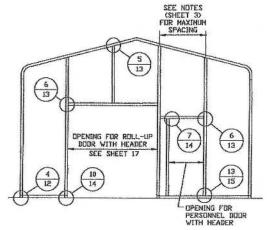
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION SCALE NTS

TS ROOF RAFTER/
COLUMN ASSEMBLY

OPENING FOR ROLL-UP
DOOR WITH HEADER
SEE SHEET 17

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

OPENING FOR WINDOW
WITH HEADER
PERSONNEL DOOR
WITH HEADER

TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

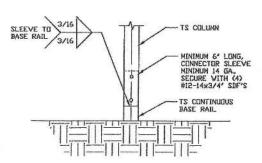


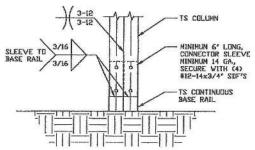
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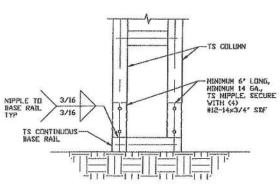
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PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	Lon	NO: 19294S		
CHECKED BY: PDH		AKE CITY, FLO 0'-0" SP ENCLOS				
DRAWN BY: JG	BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE					

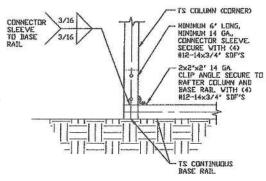




RAFTER CULUMN/BASE RAIL CONNECTION DETAIL 3 SCALE: NTS

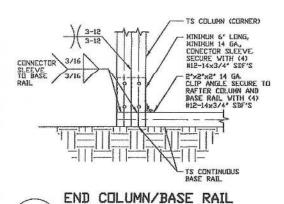
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL **3A** SCALE: NTS





END COLUMN/BASE RAIL CONNECTION DETAIL **3B** SCALE: NTS

END COLUMN/BASE RAIL CONNECTION DETAIL 4 SCALE: NTS



CONNECTION DETAIL

SCALE: NTS

4A

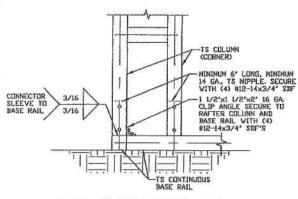
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	PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	JOB	ND: 19294S
	CLIENT: BMB	SHT. 12	DVG ND SK-	3	REV. 0



2'x2'X2' 14 GA. ANGLE
CLIP SECURE TO COLUMN
AND RAFTER VITH
#12-14x3/4' SDF'S 2 EN
TUP AND 2 EN SIDE

TS END COLUMN

END COLUMN/RAFTER

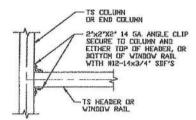
END COLUMN/BASE RAIL CONNECTION DETAIL

5 CONNECTION DETAIL
SCALE: NTS

SCALE: NTS

4B

6



3/16
3/16
3/16
3/16
3/16
7' TS COLUMN

MINIMUM 6' LONG MINIMUM
14 GA. CONNECTOR SLEEVE
TO HEADER
3/16

TS COLUMN

TS COLUMN

TS COLUMN

TS COLUMN

TS HEADER DR
WINDOW RAIL

COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL

SCALE: NTS

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL SCALE, NTS

No 57170

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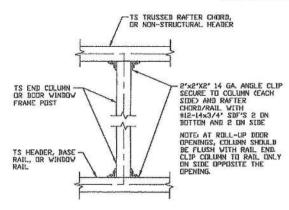
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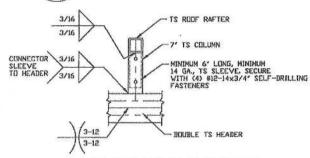
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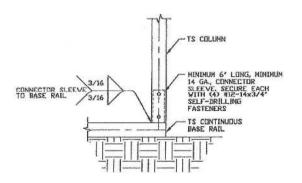
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2007 107 107 107 107 107 107 107 107 107	CHECKED BY: PBH	LAKE CITY, FL BECKED BY: PBH 30-0"x20'-0" SP ENCL						
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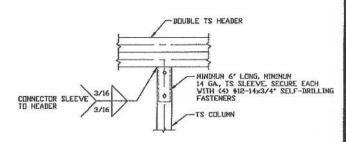
7 COLUMN TO WINDOW RAIL CONNECTION DETAIL SCALE: NTS



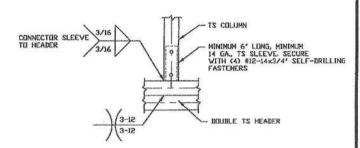
9A COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS



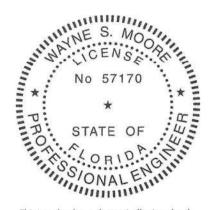
10 COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



8 DOUBLE HEADER/COLUMN CONNECTION DETAIL SCALE NTS



9B COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS

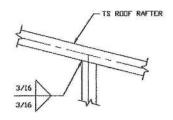


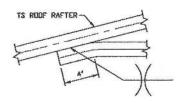
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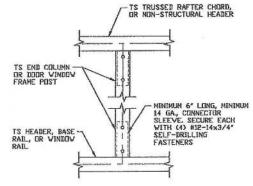
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-	PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	JOB	ND: 19294S		
Street, Street	CLIENT: BMB	SHT. 14	DWG. ND: SK-	REV. 0			





RAFTER TO CHORD CONNECTION DETAIL SCALE NTS

12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS

13

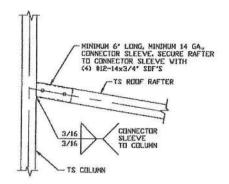


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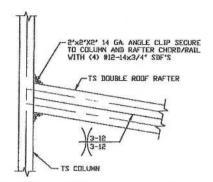
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BOX EAVE RAFTER LEAN-TO OPTIONS 14 15 16A MAIN STRUCTURE EAN-TO OPTION ROOF EXTENSION OPTION 9 12 12 12 BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN) TYPICAL TS ROOF RAFTER MAIN BUILDING CONNECTOR SLEEVE TO RAFTER LONG CONNECTOR SLEEVE 14 GA. SECURE RAFTER TO CONNECTOR SLEEVE WITH (8) #12-14x3/4' SDF'S MINIMUM 6' LONG, MINIMUM 14 GA., CONNECTOR SLEEVE, SECURE CULLUMN TO CONNECTOR SLEEVE VITH (4) #2-14x3/4' SDF'S TS EXTENSION RAFTER IB GA. U-CHANNEL BRACE TS COLUMN SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS & 12'-SCALE: NTS TS ROOF RAFTER MAIN BUILDING CONNECTOR SLEEVE TO RAFTER 12" LONG CONNECTOR SLEE 14 GA. SECURE RAFTER TO CONNECTOR SLEEVE WITH (8) \$12-14x3/4" SDF MINIMUM 6' LDING, MINIMUM 14 GA. CONNECTOR SLEEVE. SECURE COLUMN TO CONNECTOR SLEEVE WITH (4) #12-14x3/4'SDF'S TS DOUBLE EXTENSION RAFTER 18 GA. U-CHANNEL BRACE 2'x2'X2' 14 GA. ANGLE CLIP SECURE TO COLUMN AND RAFTER CHORD/RAIL VITH (4) 812-14x3/4' SDF'S This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date. Printed copies of this document are not TS COLUMN SIDE EXTENSION RAFTER/ considered signed and sealed and the COLUMN DETAIL FOR RAFTER signature must be verified on any electronic SPANS 12'-0" < L ≤ 16'-0" 14B SCALE: NTS BEST METAL BUILDINGS, LLC MOORE AND ASSOCIATES 484 NW TURNER AVENUE DRAWN BY: JG LAKE CITY, FLORIDA 32055 30-0"x20'-0" SP ENCLOSED STRUCTURE ENGINEERING AND CONSULTING, INC. CHECKED BY PDH THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNMUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRONGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. PROJECT MGRI WSM SCALE: NTS JOB NO: 19294S DATE: 1-7-20 SHT. 16 DWG. NO. SK-3 REV. 0 CLIENT: BMB

BOX EAVE RAFTER LEAN-TO OPTIONS



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



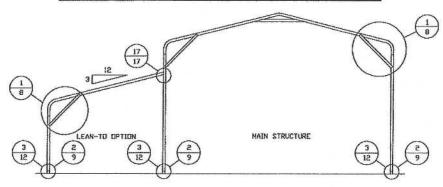
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO < 16'-0"
SCALE: NTS



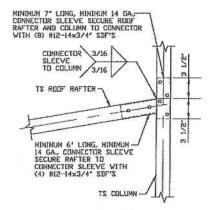
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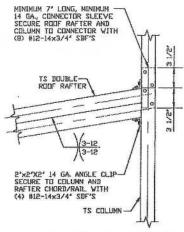
BOW EAVE RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION SCALE NTS



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



17B

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



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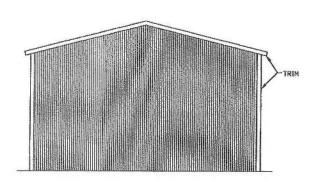
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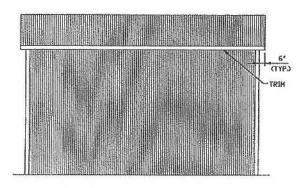
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CLIENT: BMB	SHT. 17	DWG. NO: SK-	3	REV. 0			

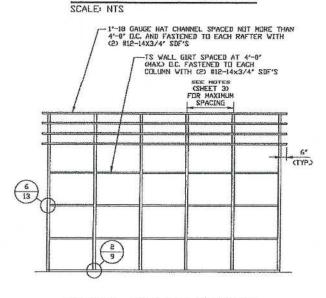
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



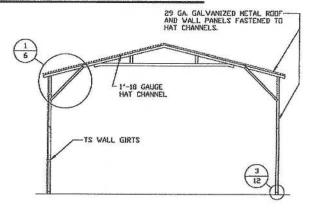
TYPICAL END ELEVATION VERTICAL ROOF/SIDING



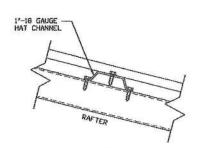
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING



TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION
SCALE NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE; NTS



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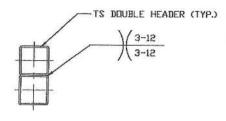
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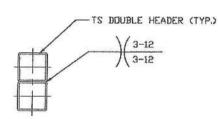
SIDE WALL HEADER OPTION



HEADER DETAIL FOR LENGTHS ≤ 16'-0"

SCALE: NTS

END WALL HEADER OPTIONS



TS HEADER (TYP.)

HEADER DETAIL FOR LENGTHS 14'-0" < TO \leq 16'-0" SCALE NTS

HEADER DETAIL FOR LENGTHS ≤ 14'-0"
SCALE: NTS

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PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	JOB	ND: 19294S
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