

BEST METAL BUILDINGS, LLC.



**STRUCTURAL DESIGN
STANDARD PACKAGE
ENCLOSED BUILDING**

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

2 March 2021

Revision 1

M&A Project No. 19294S/21025S

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**



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**



[illegible]

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DRAWN BY: JG

CHECKED BY: PDH

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

JOB NO. 19294S/

210255

PROJECT MGR: VSM

DATE: 3-2-21

SCALE: NTS

DWG. NO. SK-3

REV. 1

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CLIENT: BMB

SHT. 2

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 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2015 IBC, AND 2012 IBC.

3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

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 1.

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)

12 GAUGE MAY BE USED AS AN OPTION.

10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR DISTANCE OR EDGE DISTANCE)

= 10" O.C. (MAX.) FOR LOW WIND AND 6" O.C. (MAX.) FOR HIGH WIND.

11. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.

REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOFING WITH SLOPES LESS THAN 3:12 MUST BE LAP SEALANT.

12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6" OF EACH COLUMN.

13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT X 36" LONG IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS < 145 MPH. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS

14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

R = 3.25
I_e = 1.0
V = C_sV
S_{DS} = 2.039 g
S_{NI} = 1.258 g

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PROJECT MGR: VSM

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JOB NO. 19294S/
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BEST METAL BUILDINGS, LLC

484 NW TURNER AVENUE

LAKE CITY, FLORIDA 32055

30'-0"x20'-0" SP ENCLOSED STRUCTURE

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SHT. 3

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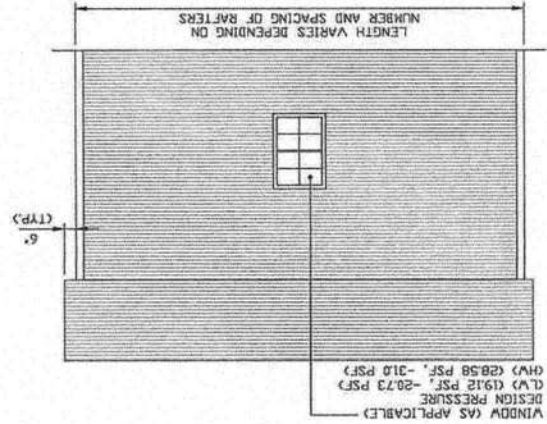
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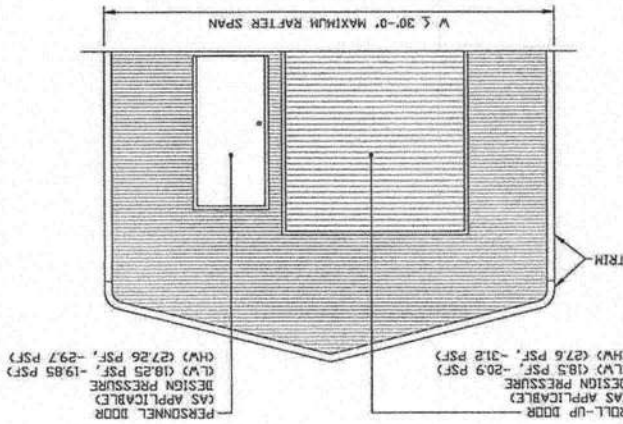
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30'-0"x20'-0" SP ENCLOSED STRUCTURE

TYPICAL SIDE ELEVATION
SCALE: NTS

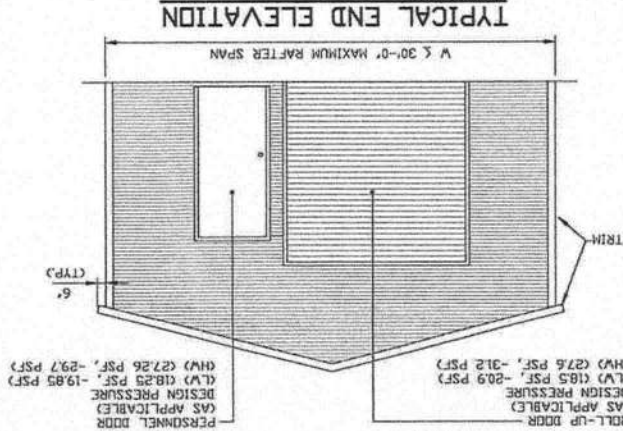


BOX FRAME RAFTER STRUCTURE

TYPICAL END ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS



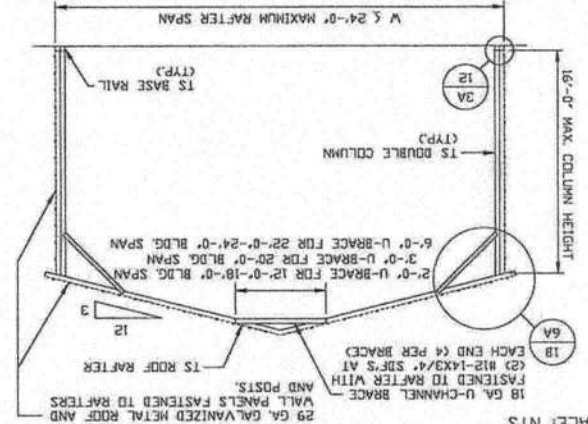
BOX EAVE RAFTER STRUCTURE

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DRAWN BY: JG	BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE LAKE CITY, FLORIDA 32055		

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

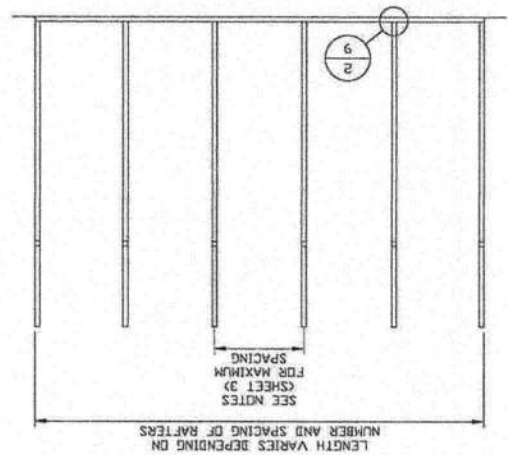


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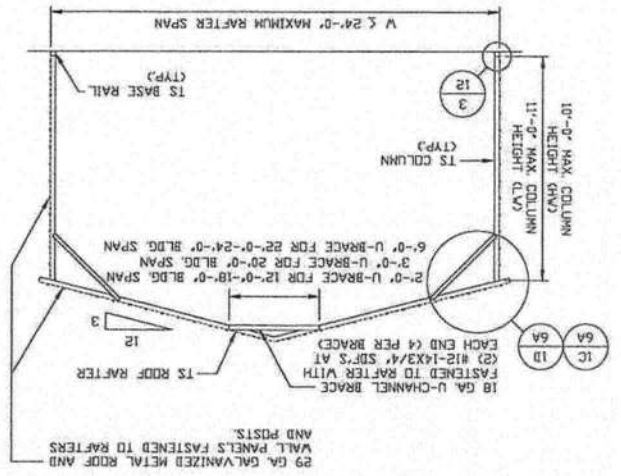
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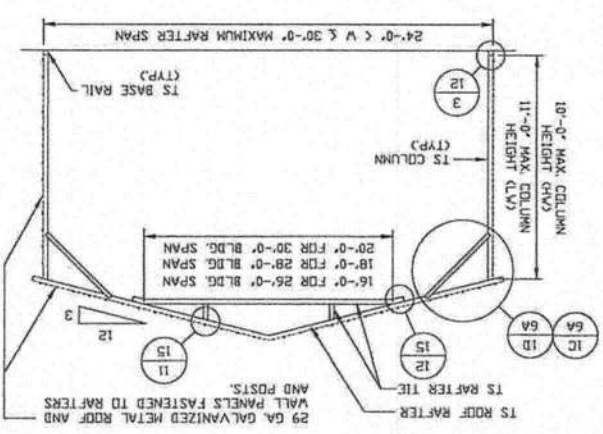
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



SCALE: NTS
TYPICAL RAFTER/COLUMN END FRAME SECTION



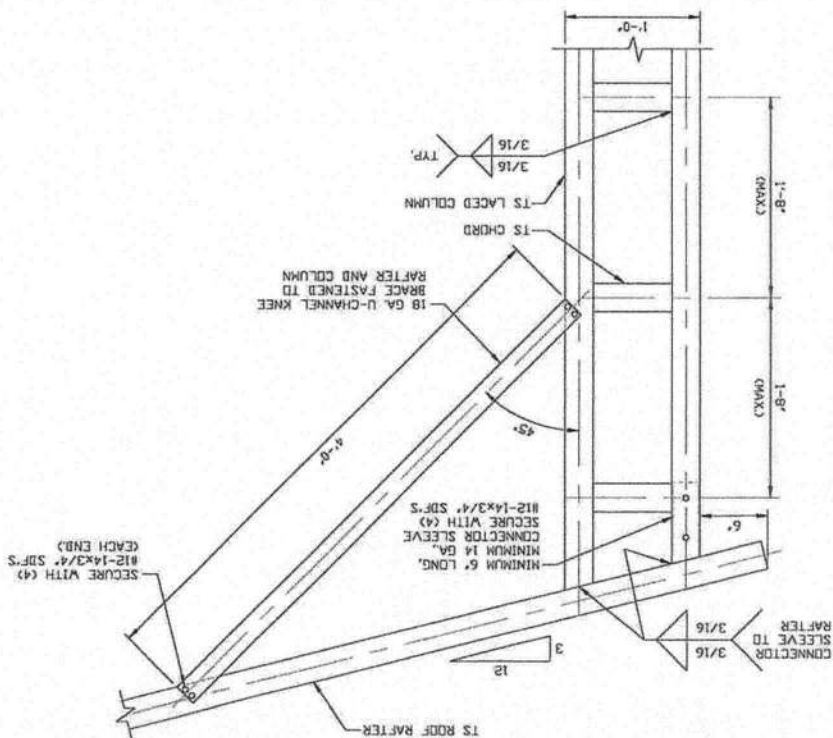
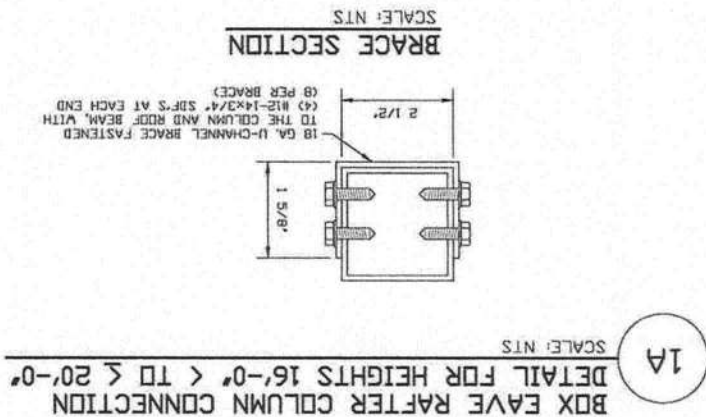
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TYPICAL RAFTER/COLUMN END FRAME SECTION



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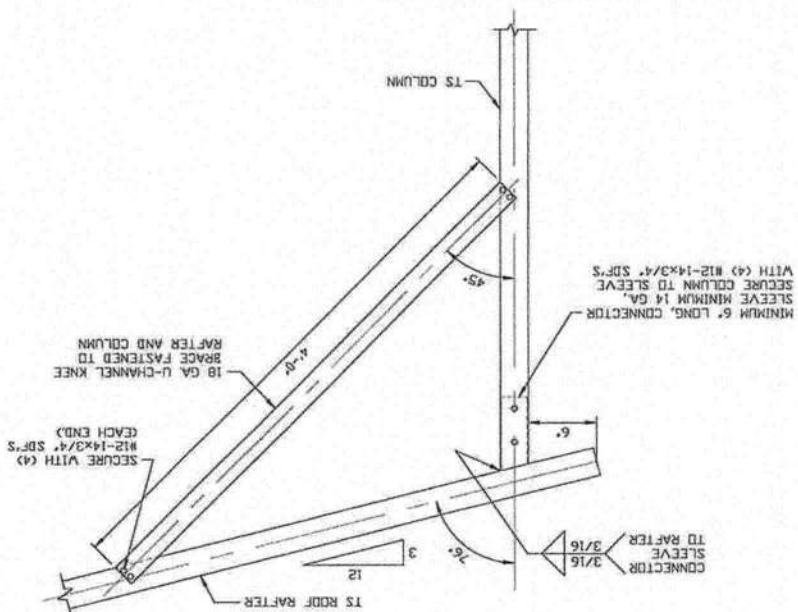


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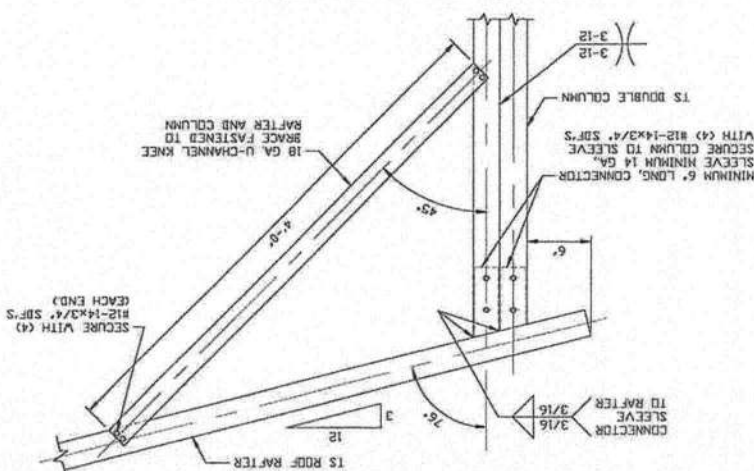
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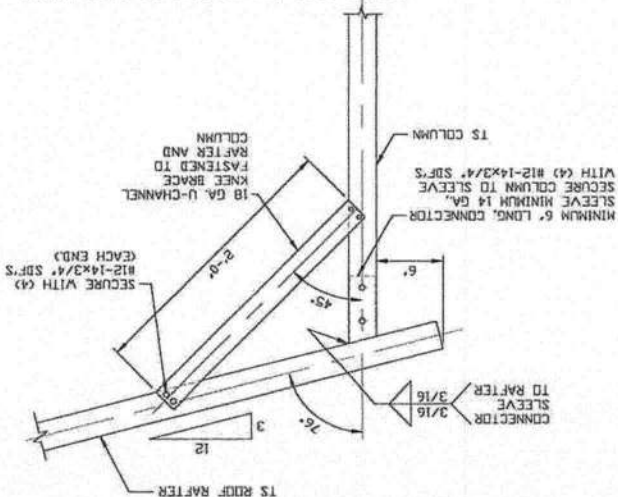
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 8'-0" > TO ≤ 10'-0" (HW)
AND HEIGHTS 10'-0" > TO ≤ 11'-0" (LW)
SCALE: NTS



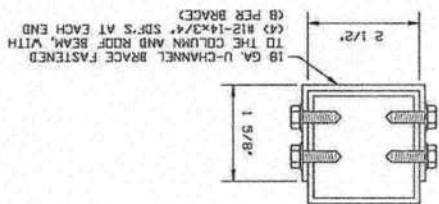
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 10'-0" > TO ≤ 16'-0" (HW)
AND HEIGHTS 11'-0" > TO ≤ 16'-0" (LW)
SCALE: NTS



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



BRACE SECTION
SCALE: NTS



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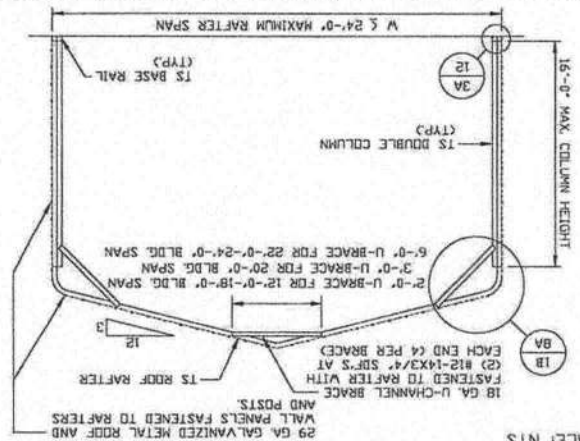
DWG. NO. SK-3

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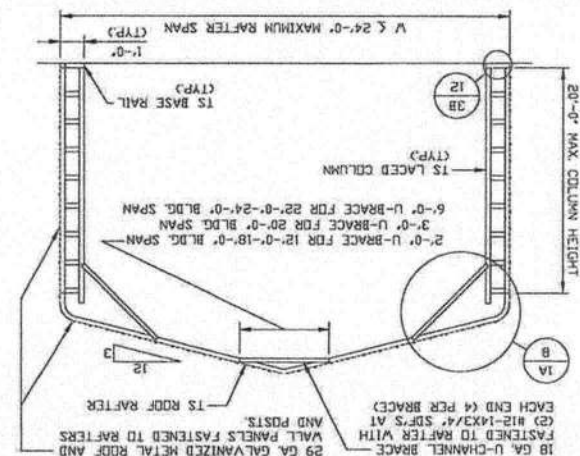
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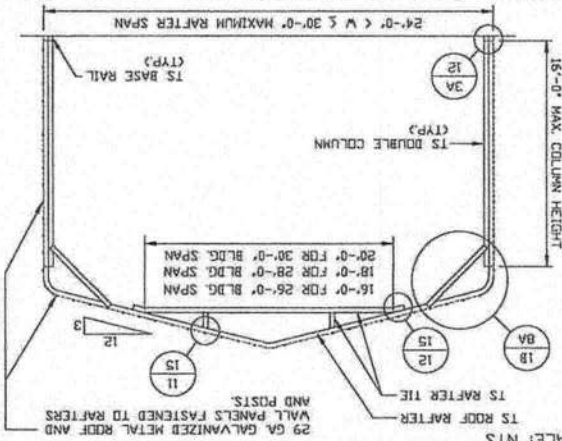
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SCALE: NTS



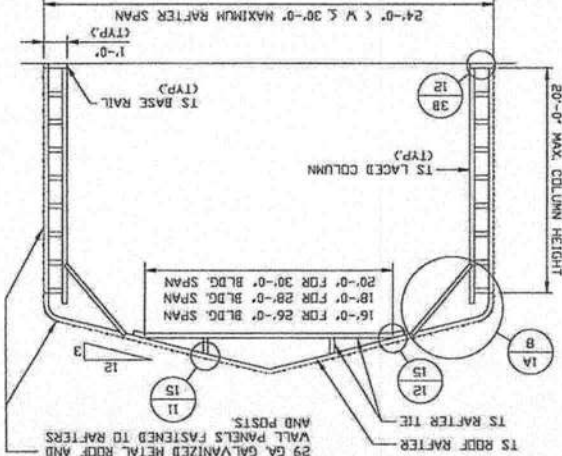
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



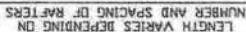
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SCALE: NTS



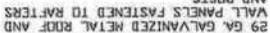
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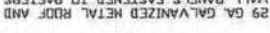
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SCALE: NTS



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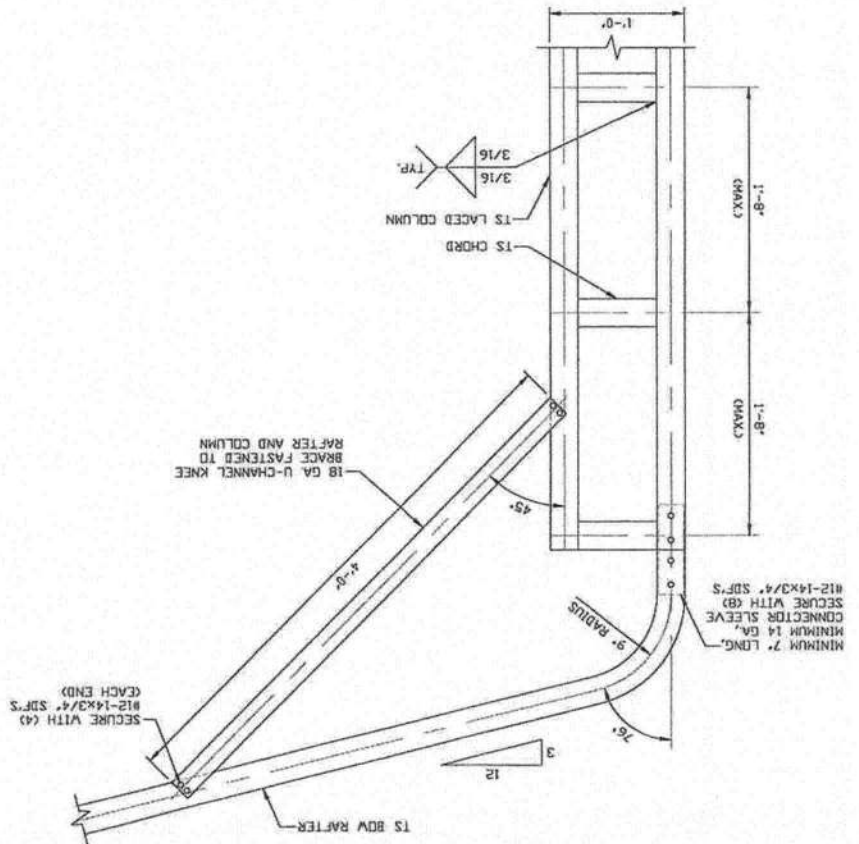


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1A

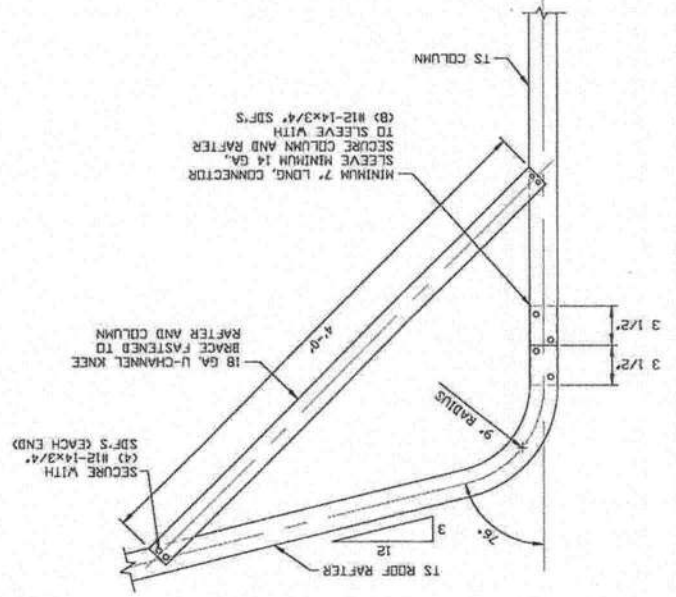


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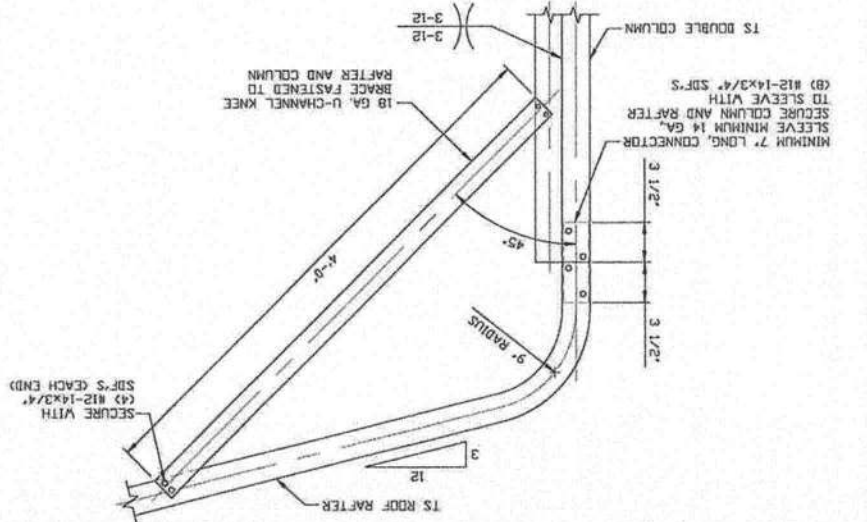
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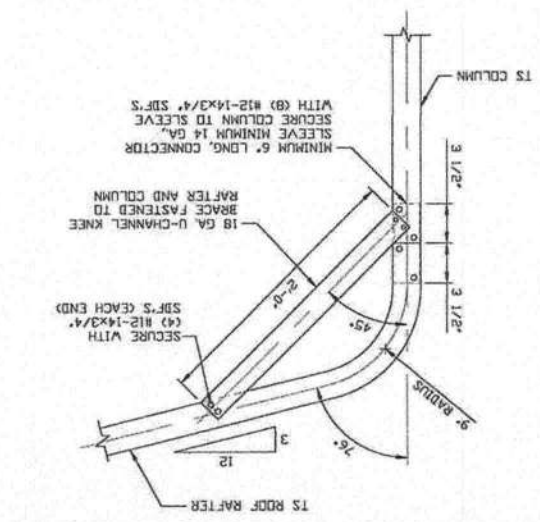
1C
SCALE: NTS
BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 8'-0" < TO ≤ 10'-0" (HW)
AND HEIGHTS 10'-0" < TO ≤ 11'-0" (LW)



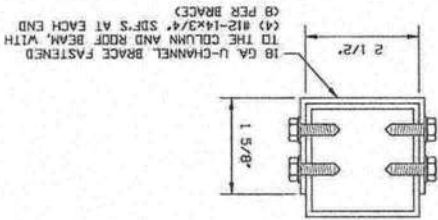
1B
SCALE: NTS
BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 10'-0" < TO ≤ 16'-0" (HW)
AND HEIGHTS 11'-0" < TO ≤ 16'-0" (LW)



1D
SCALE: NTS
BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS ≤ 8'-0" (HW)
AND HEIGHTS < 10'-0" (LW)

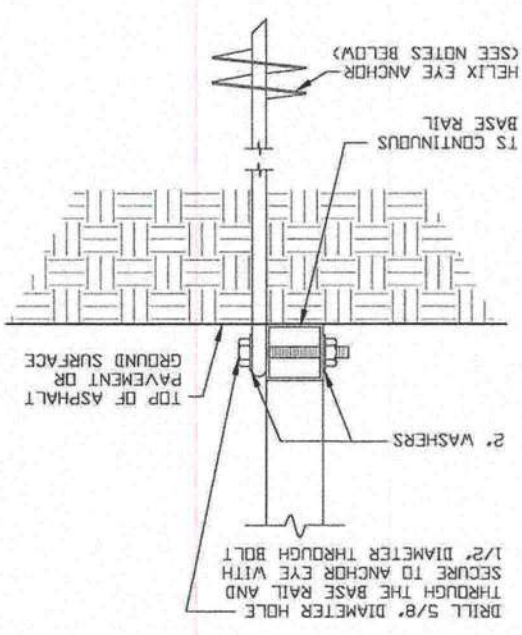
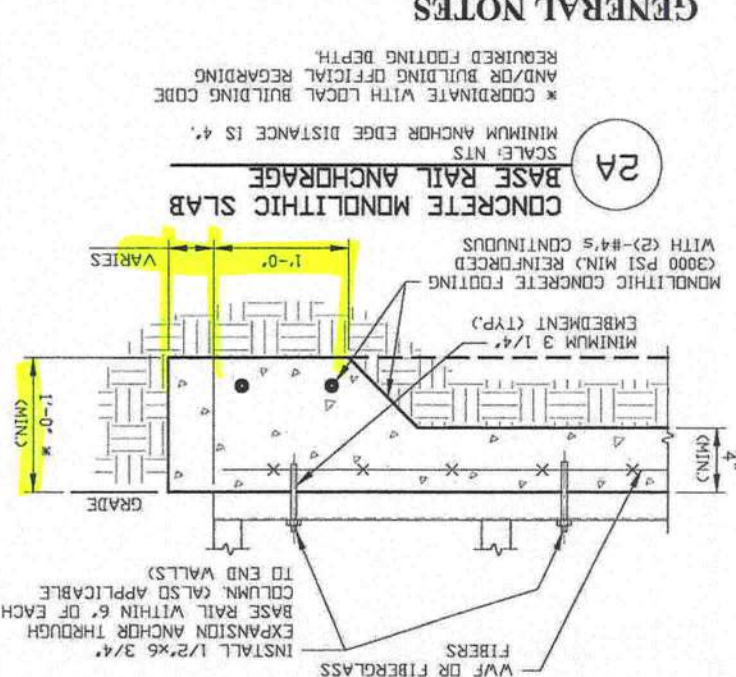


BRACE SECTION
SCALE: NTS



- 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" 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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

- 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.
- 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.
- GENERAL NOTES**
- NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

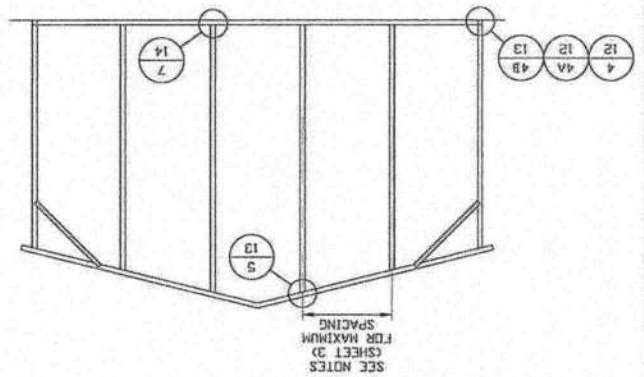


2B
GROUND BASE HELIX ANCHORAGE
SCALE: NTS (CAN BE USED FOR ASPHALT)

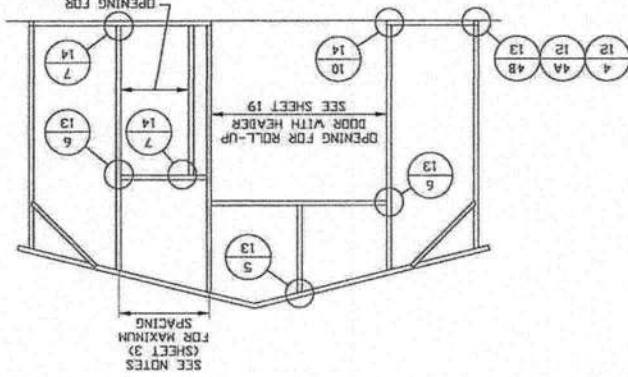
* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH (LENGTH).

BASE RAIL ANCHORAGE OPTIONS

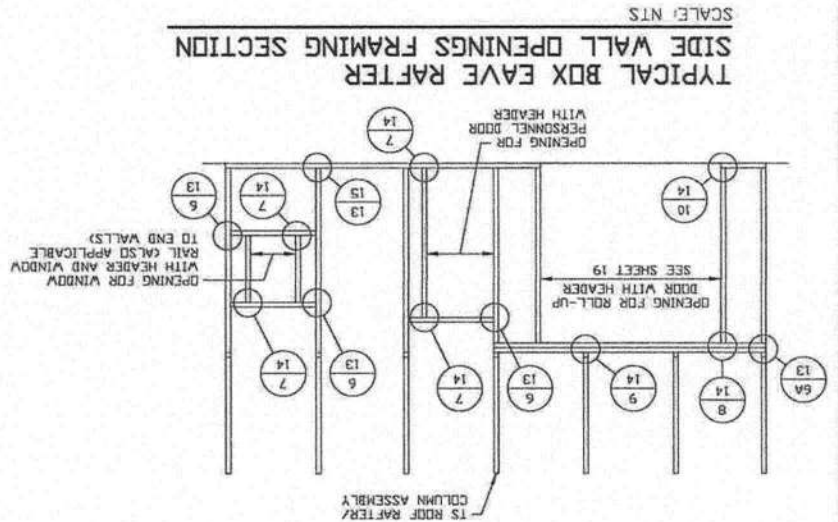
TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE)



TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION



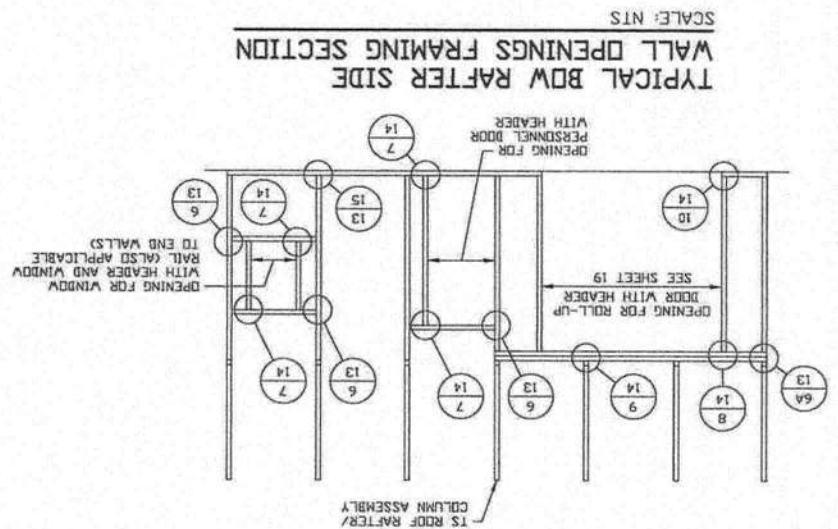
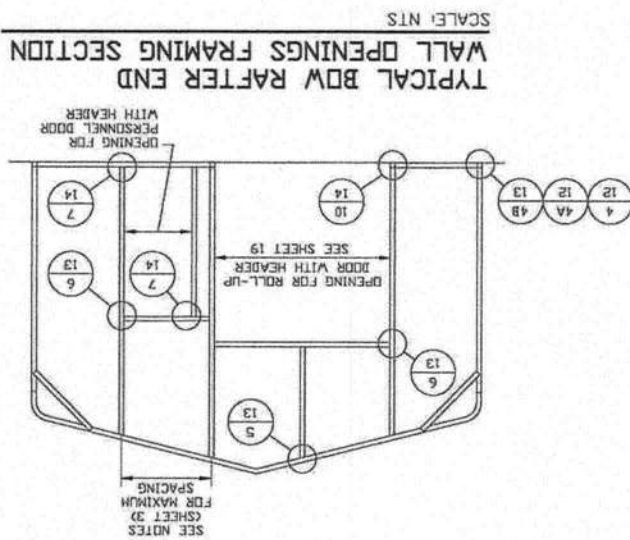
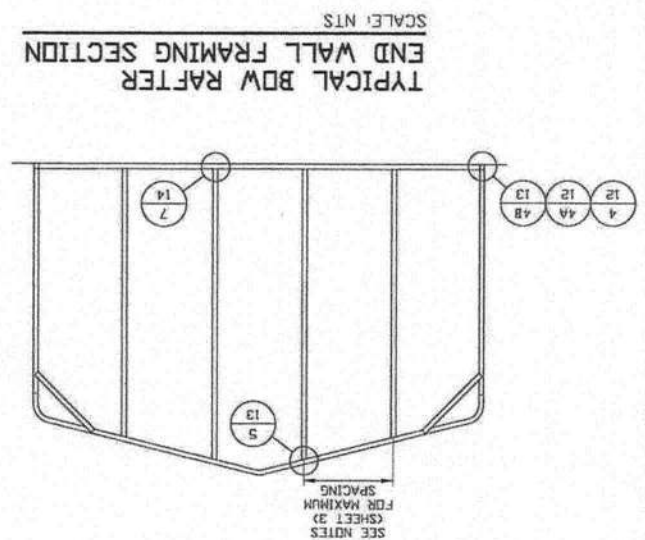
TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION
SCALE: NTS



TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION

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TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW FAVE)

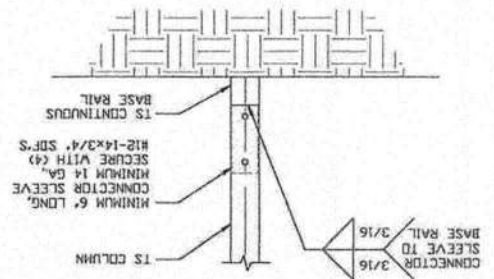


MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.		DRAWN BY: JG CHECKED BY: PMH		30'-0" x 20'-0" SP ENCLOSED STRUCTURE BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE LAKE CITY, FLORIDA 32055	
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		CLIENT: BMB		REV. 1	

CONNECTION DETAILS

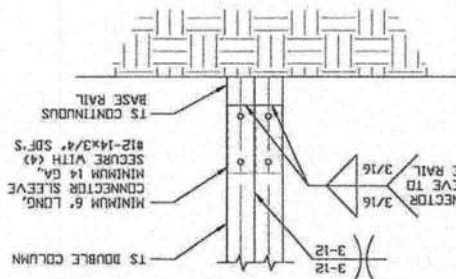
3 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



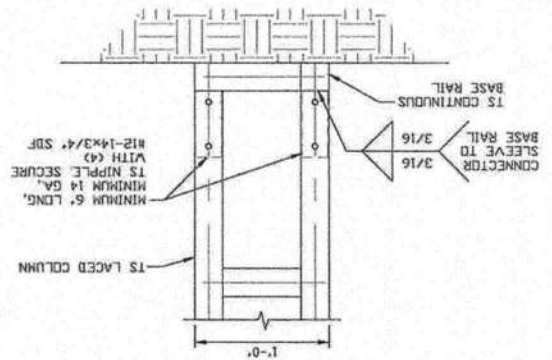
3A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



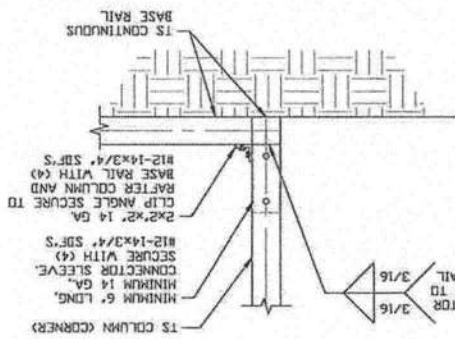
3B END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



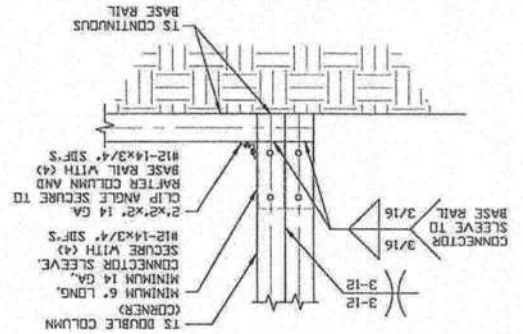
4 END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



4A END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

BEST METAL BUILDINGS, LLC
484 NW TURNER AVENUE
LAKE CITY, FLORIDA 32055
30'-0\"/>

JOB NO. 19294S/

210255

SCALE: NTS

DATE: 3-2-21

PROJECT MGR: VSM

CLIENT: BMB

SHT. 12

DWG. NO. SK-3

REV. 1

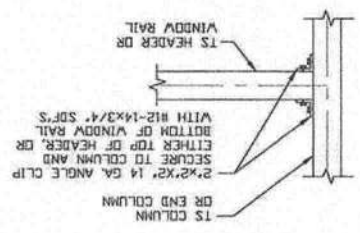
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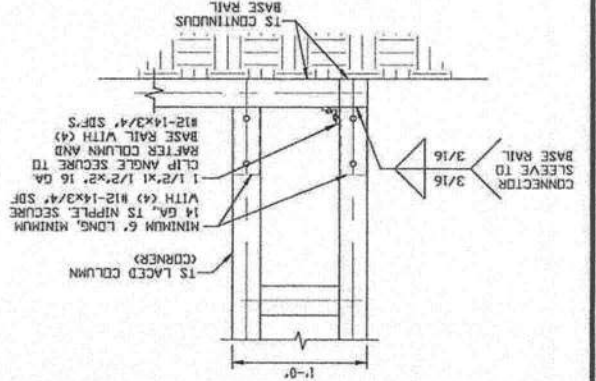
**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

CLIENT: BMB	SHT. 13	DWG. NO. SK-3	REV. 1
PROJECT MGR: WSM	DATE: 3-2-21	SCALE: NTS	JOB NO. 19294S/210255
CHECKED BY: PDH	30'-0"x20'-0" SP ENCLOSED STRUCTURE LAKE CITY, FLORIDA 32055 484 NW TURNER AVENUE BEST METAL BUILDINGS, LLC		
DRAWN BY: JG			

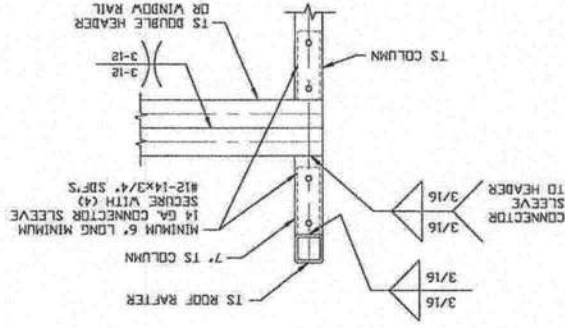
6
COLUMN OR WINDOW
RAIL/GIRT TO POST
SCALE: NTS



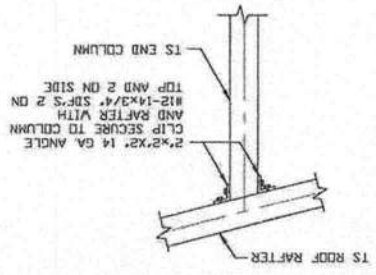
4B
END COLUMN/BASE RAIL
SCALE: NTS



6A
COLUMN OR WINDOW
RAIL TO POST
SCALE: NTS

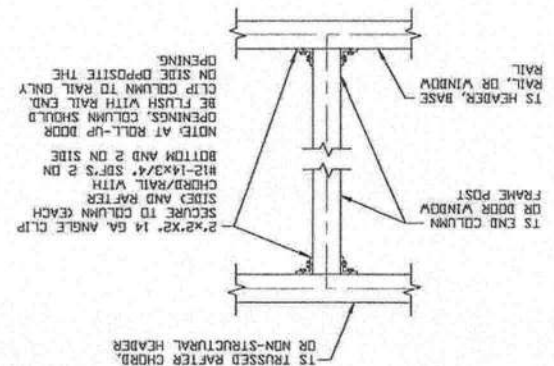


5
END COLUMN/RAFTER
SCALE: NTS

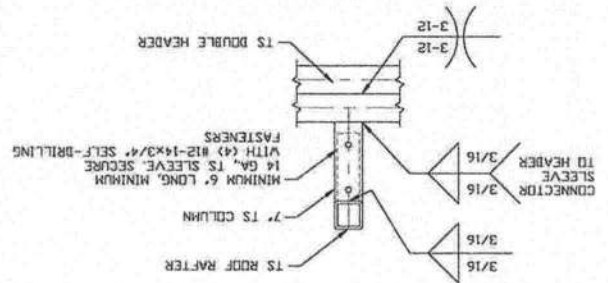


CONNECTION DETAILS

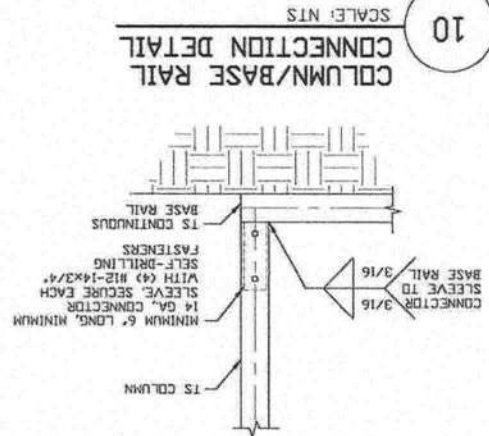
CONNECTION DETAILS



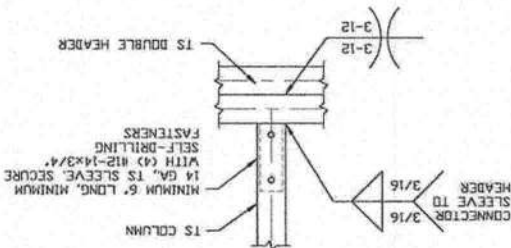
7
COLUMN TO WINDOW RAIL
SCALE: NTS



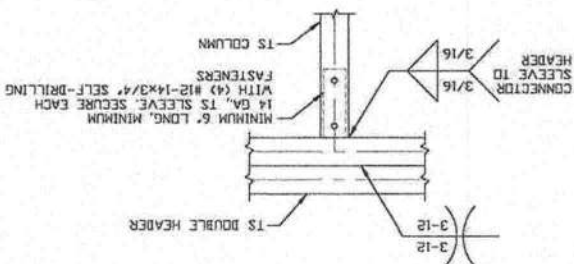
9
COLUMN/DOUBLE HEADER
SCALE: NTS



10
COLUMN/BASE RAIL
SCALE: NTS



9A
COLUMN/DOUBLE HEADER
SCALE: NTS



8
DOUBLE HEADER/COLUMN
SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PMH

PROJECT MGR: VSM

SHT. 14

DATE: 3-2-21

SCALE: NTS

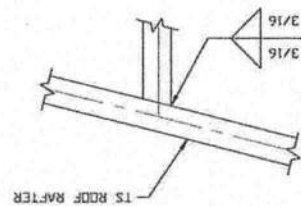
JOB NO: 19294S/

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

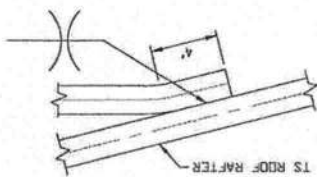
REV. 1

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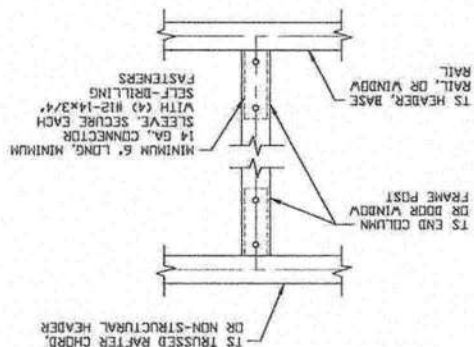
CONNECTION DETAILS



11
SCALE: NTS
CONNECTION DETAIL
RAFTER TO CHORD



12
SCALE: NTS
CONNECTION DETAIL
COLLAR TIE



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

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

SHT. 15

DATE: 3-2-21

SCALE: NTS

DWG. NO. SK-3

REV. 1

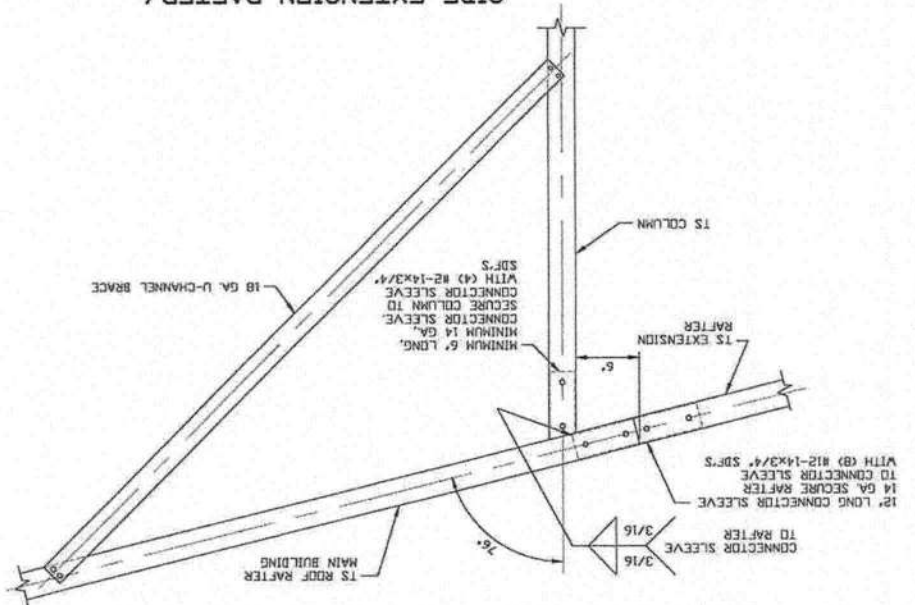
JOB NO. 19294S/

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

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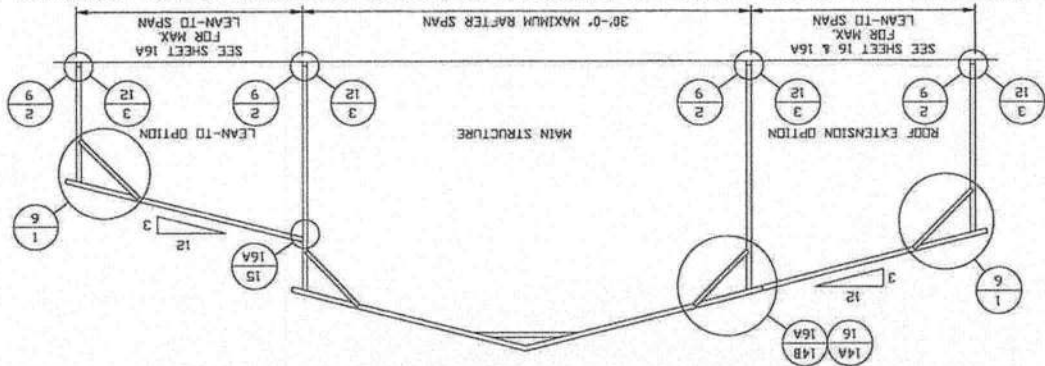
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DRAWN BY: JG CHECKED BY: PMH			PROJECT MGR: WSM DATE: 3-2-21		
BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE LAKE CITY, FLORIDA 32055 30'-0"x20'-0" SP ENCLOSED STRUCTURE			SHT. 16 DVG. NO. SK-3 REV. 1		

144
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
RAFTER SPANS $\leq 12'-0"$
SCALE: NTS



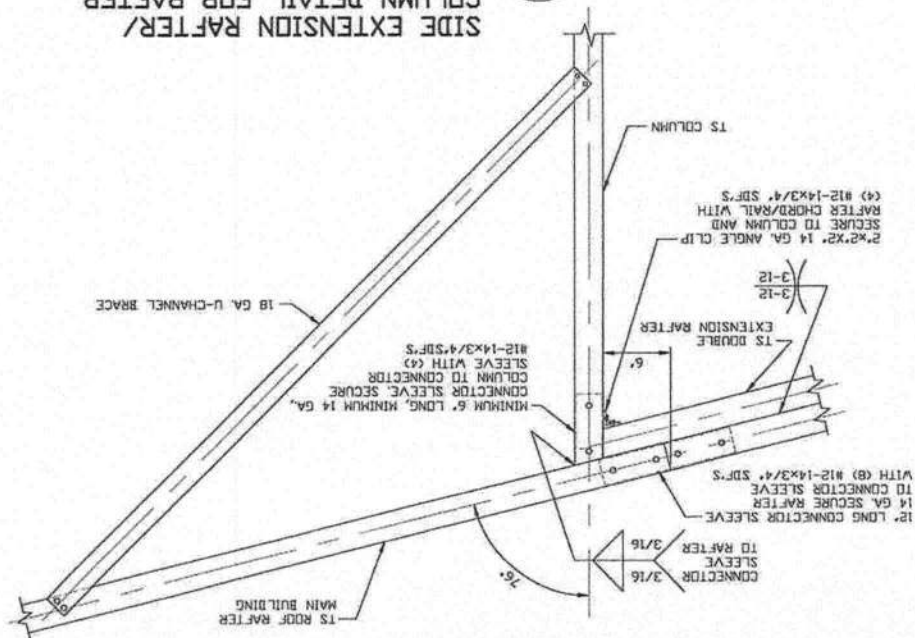
SCALE: NTS
(MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION LEAN-TO IS 12'-0")
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR
EAVE HEIGHTS 16'-0" $\leq$ TO $\leq 20'-0"$.
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR
EAVE HEIGHTS 10'-0" $\leq$ TO $\leq 16'-0"$ (HIGH WIND) AND 11'-0" $\leq$ TO $\leq 16'-0"$ (LOW WIND).
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR
EAVE HEIGHTS $\leq 10'-0"$ (HIGH WIND) AND $\leq 11'-0"$ (LOW WIND).

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

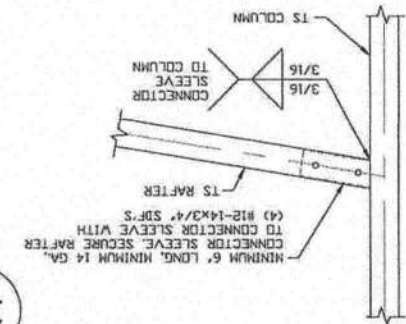


BOX EAVE RAFTER LEAN-TO OPTIONS

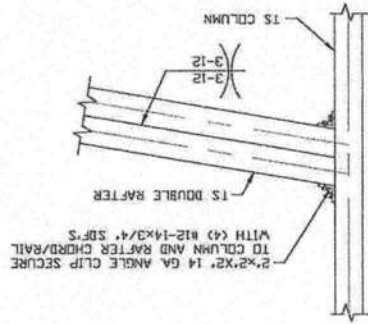
BOX EAVE RAFTER LEAN-TO OPTIONS



14B
SCALE: NTS
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR RAFTER
SPANS 12'-0" < L < 16'-0"



15A
SCALE: NTS
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS < 12'-0"



15B
SCALE: NTS
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO < 16'-0"

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ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

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

JOB NO. 192945/

SCALE: NTS

DATE: 3-2-21

PROJECT MGR: WSM

CLIENT: BMB

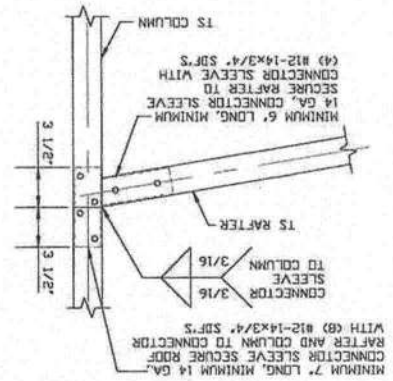
REV: 1

DWG. NO. SK-3

SHT. 16A

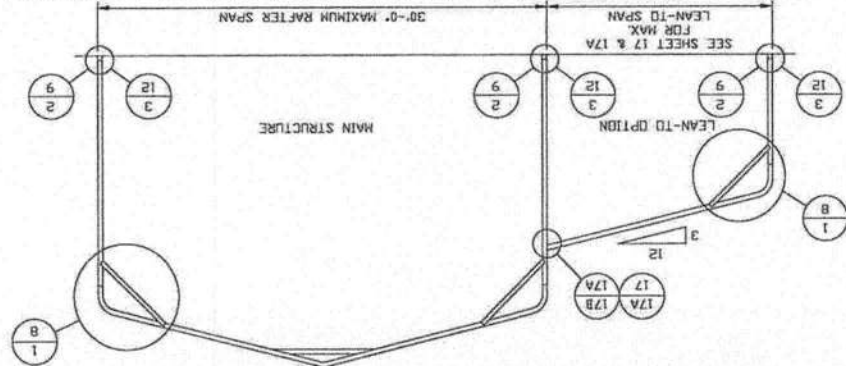
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17A
SCALE: NTS
FOR RAFTER SPANS < 12'-0"
COLUMN CONNECTION DETAIL
LEAN-TO RAFTER TO RAFTER



SCALE: NTS
MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION LEAN-TO IS 12'-0\"/>
(MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION LEAN-TO IS 16'-0\".)
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR EAVE HEIGHTS 16'-0\" < TO < 20'-0\".
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 10'-0\" < TO < 16'-0\" (HIGH WIND) AND 11'-0\" < TO < 16'-0\" (LOW WIND).
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS < 10'-0\" (HIGH WIND) AND < 11'-0\" (LOW WIND).

TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

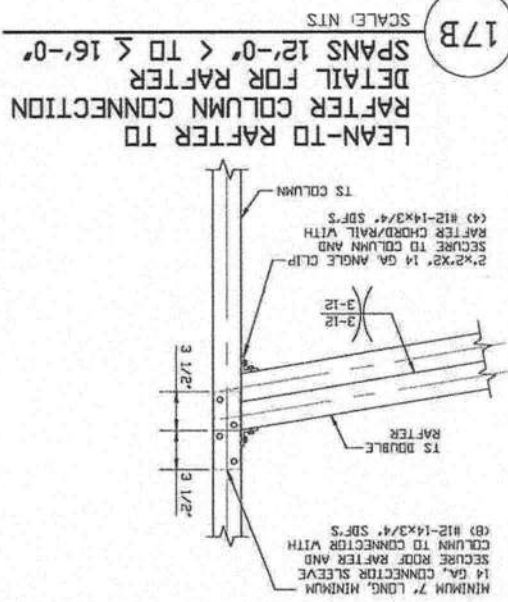


BOW EAVE RAFTER LEAN-TO OPTIONS

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CLIENT: BMB	SHT. 17A	DWG. NO. SK-3	REV. 1
PROJECT MGR: WSM	DATE: 3-2-21	SCALE: NTS	JOB NO. 19294S/
CHECKED BY: PDH	BEST METAL BUILDINGS, LLC 484 NW TURNER AVENUE LAKE CITY, FLORIDA 32053 30'-0"x20'-0" SP ENCLOSED STRUCTURE		
DRAWN BY: JG			



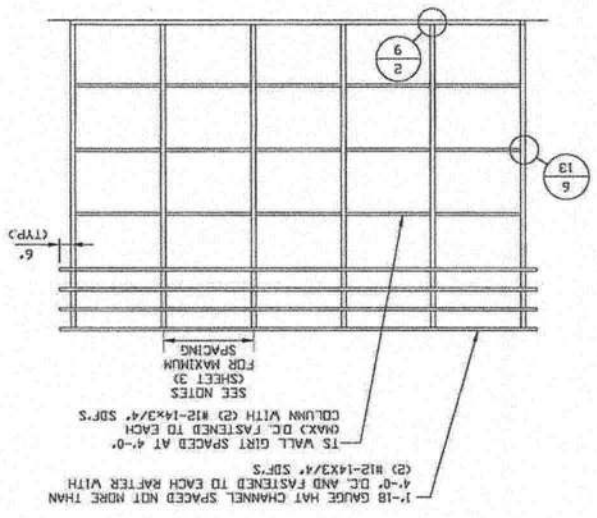
BOW EAVE RAFTER LEAN-TO OPTIONS

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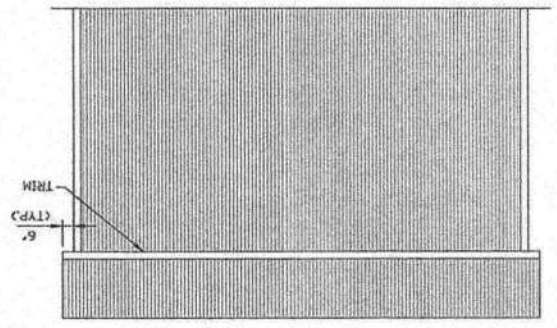
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

CLIENT: BMB	SHT: 18	DWG. NO: SK-3	REV: 1
PROJECT MGR: VSM	DATE: 3-2-21	SCALE: NTS	JOB NO: 19294S/210255
CHECKED BY: PDH	30'-0"x20'-0" SP ENCLOSED STRUCTURE LAKE CITY, FLORIDA 32055 484 NW TURNER AVENUE BEST METAL BUILDINGS, LLC		
DRAWN BY: JG			

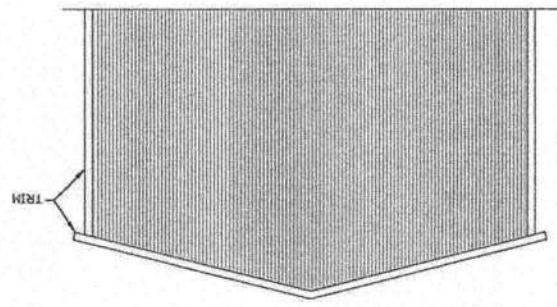
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TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION



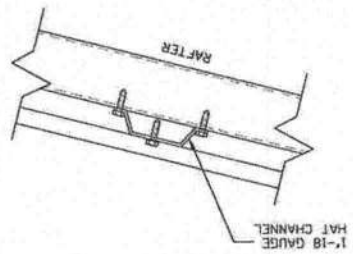
SCALE: NTS
TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING



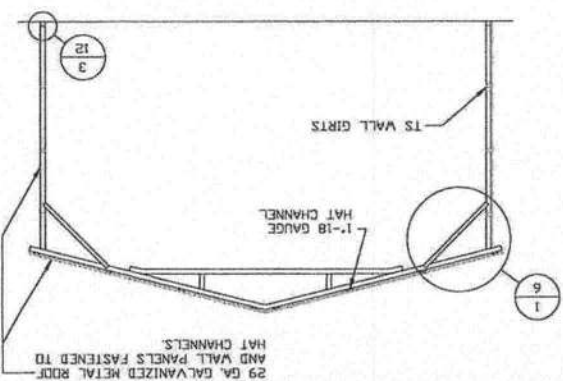
SCALE: NTS
TYPICAL END ELEVATION
VERTICAL ROOF/SIDING



SCALE: NTS
PANEL ATTACHMENT
ALTERNATE FOR VERTICAL ROOF PANELS



SCALE: NTS
TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION



BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

