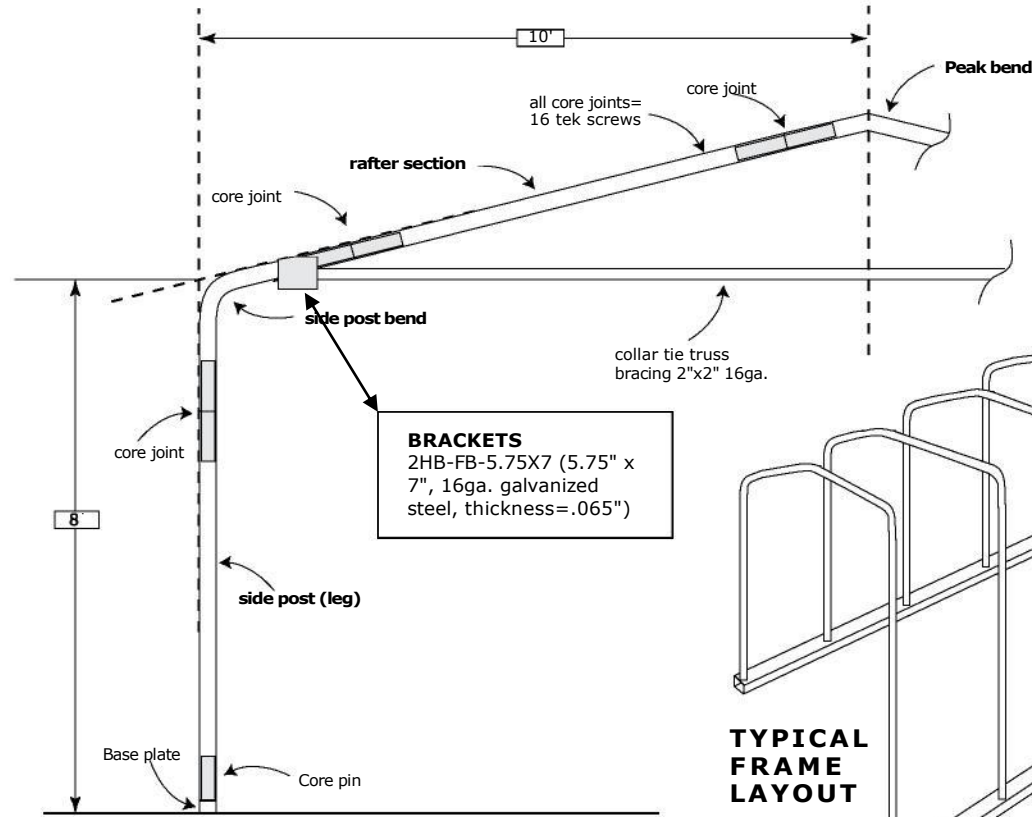


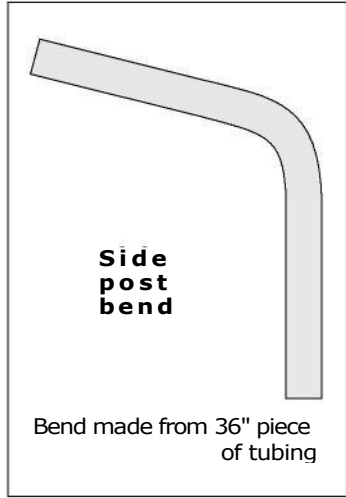
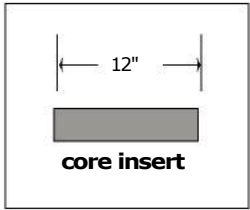
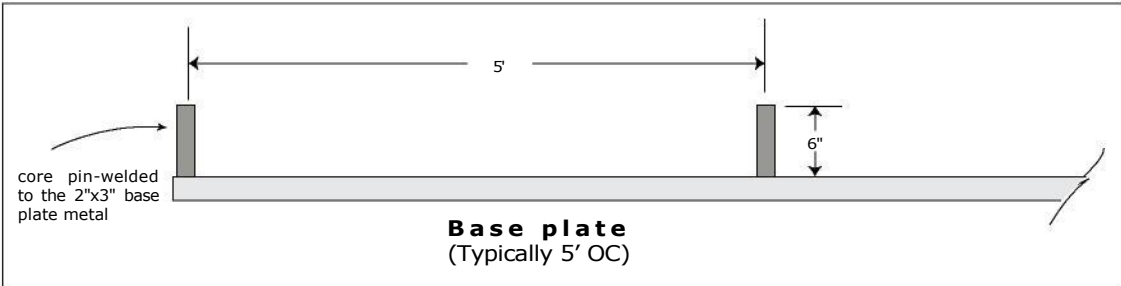
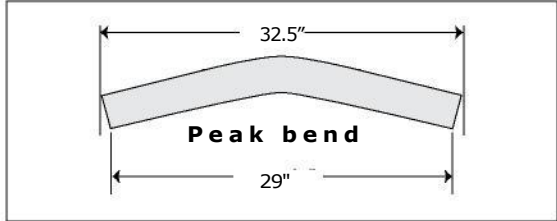
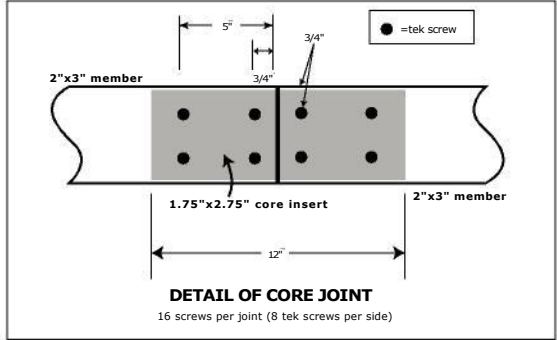
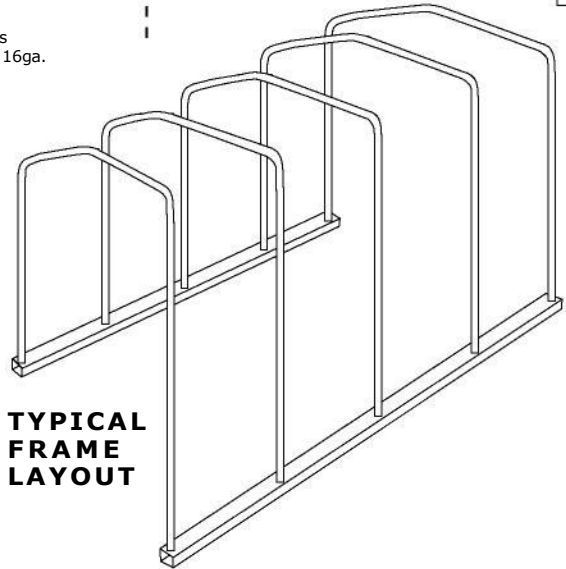
# **DURA-TUBE BUILDING SYSTEMS**

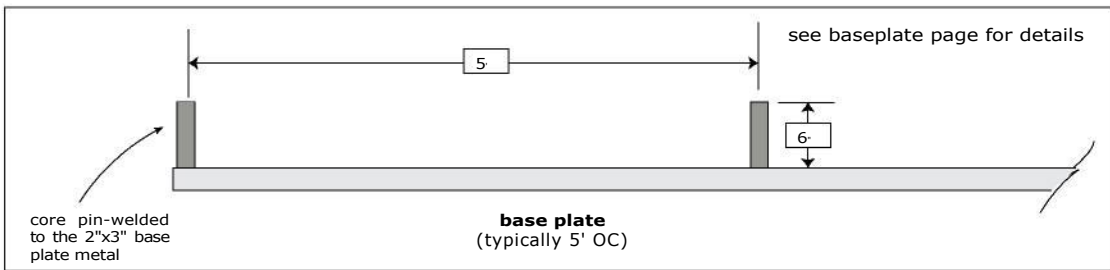
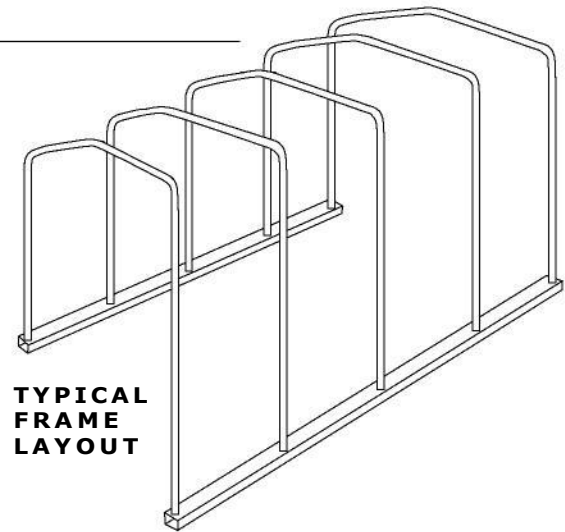
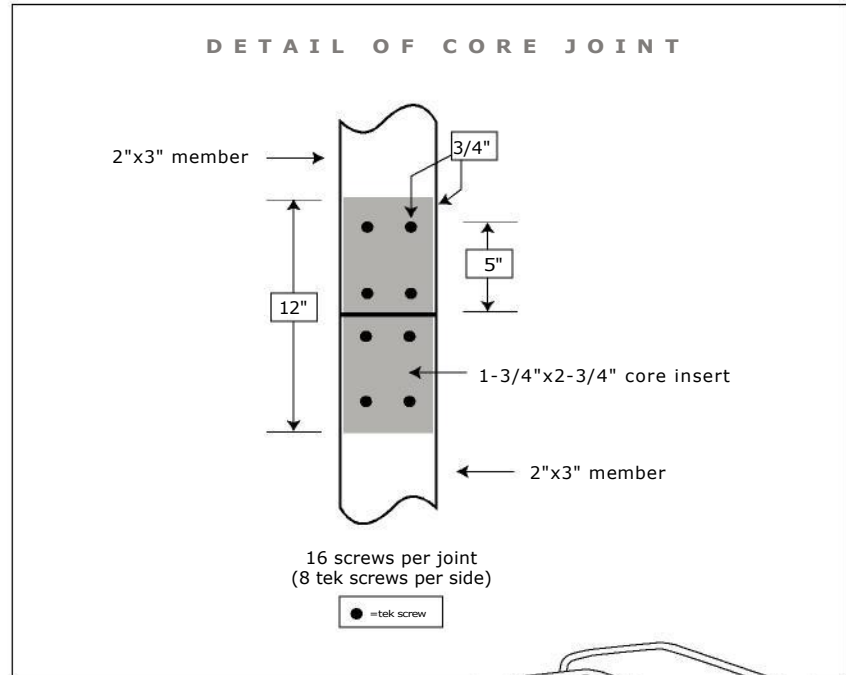
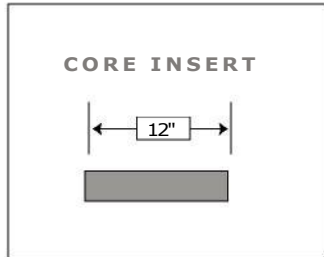
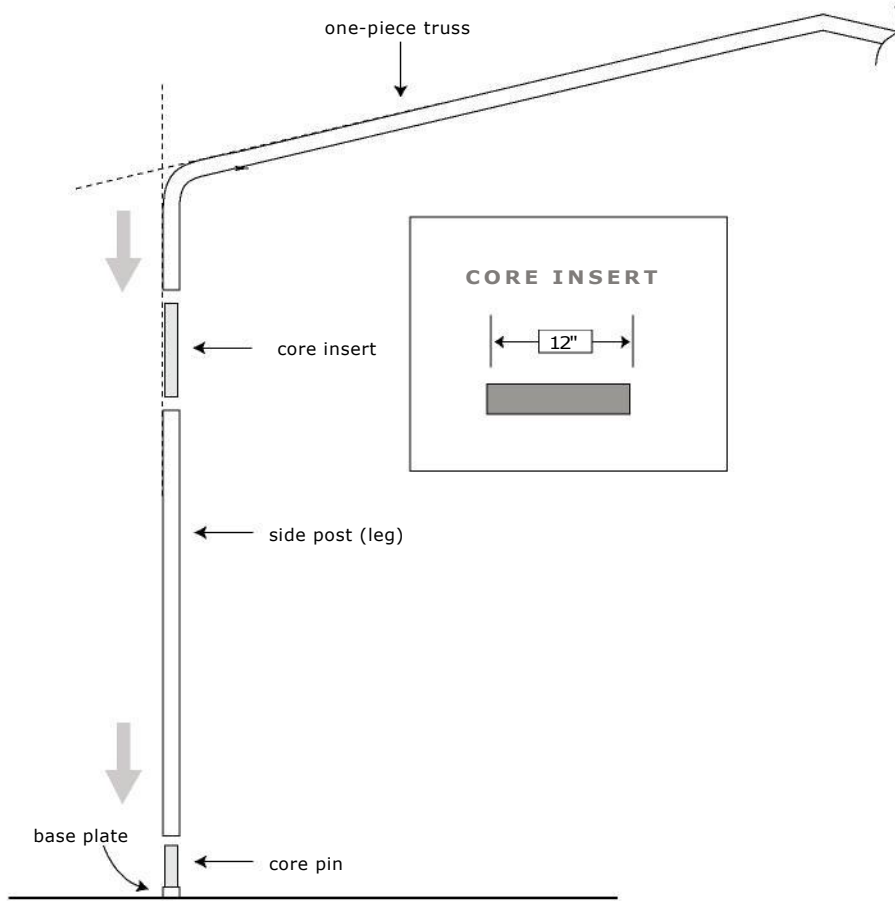


**AFP METAL PRODUCTS, 3730 S. Capitol Avenue, Whittier, CA. 90601  
(800)705-4550**



**BRACKETS**  
 2HB-FB-5.75X7 (5.75" x 7", 16ga. galvanized steel, thickness=.065")

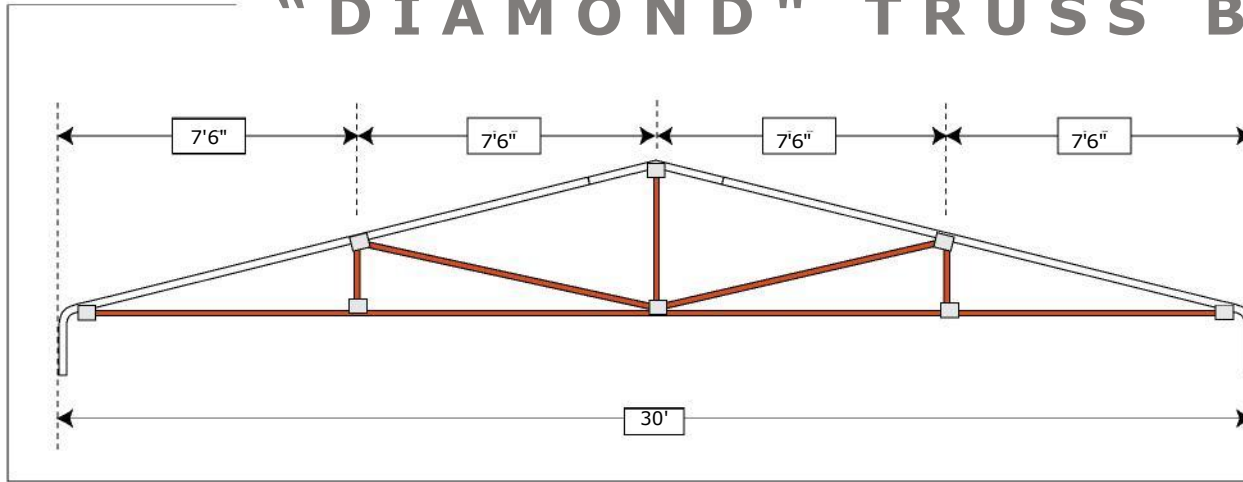





**AFP Metal Products**  
3730 S. Capitol Ave., Whittier, CA. 90601-1731


**(800) 705-4550** [www.afpmetalproducts.com](http://www.afpmetalproducts.com)

# "DIAMOND" TRUSS BRACING



 = 2" x 2", 16ga. square galvanized steel tubing

The truss itself is made from 2" x 3", 14ga. rectangular galvanized steel tubing

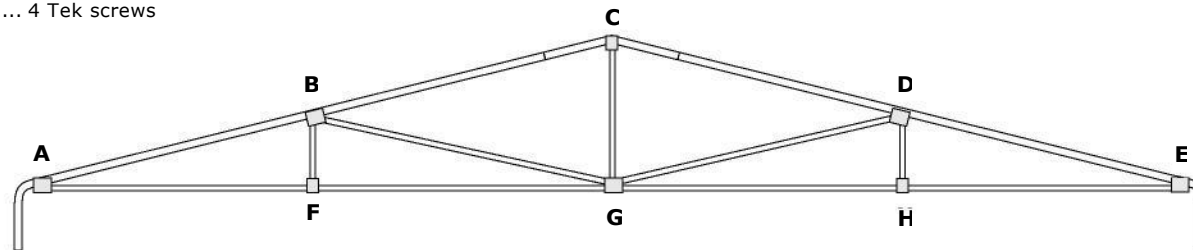
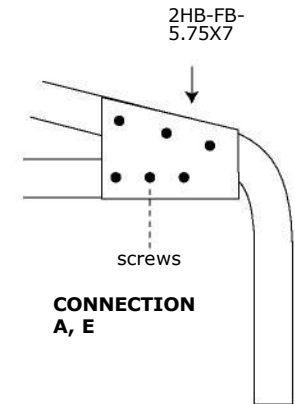
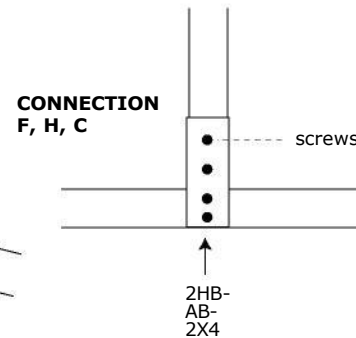
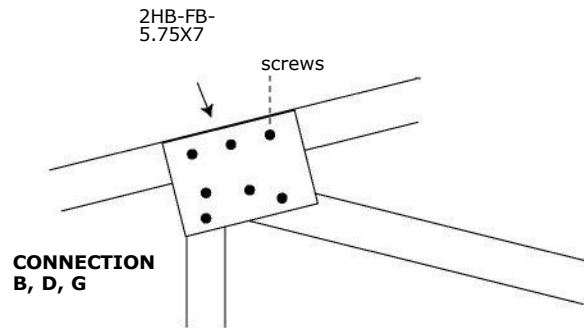
 = 2HB-FB-5.75X7 BRACKET, 7" x 5-3/4", 16ga. gal. flat plate **these brackets are applied to BOTH sides of the truss at ALL connections**

truss brace pieces made from 2" x 2", 16ga. galvanized steel

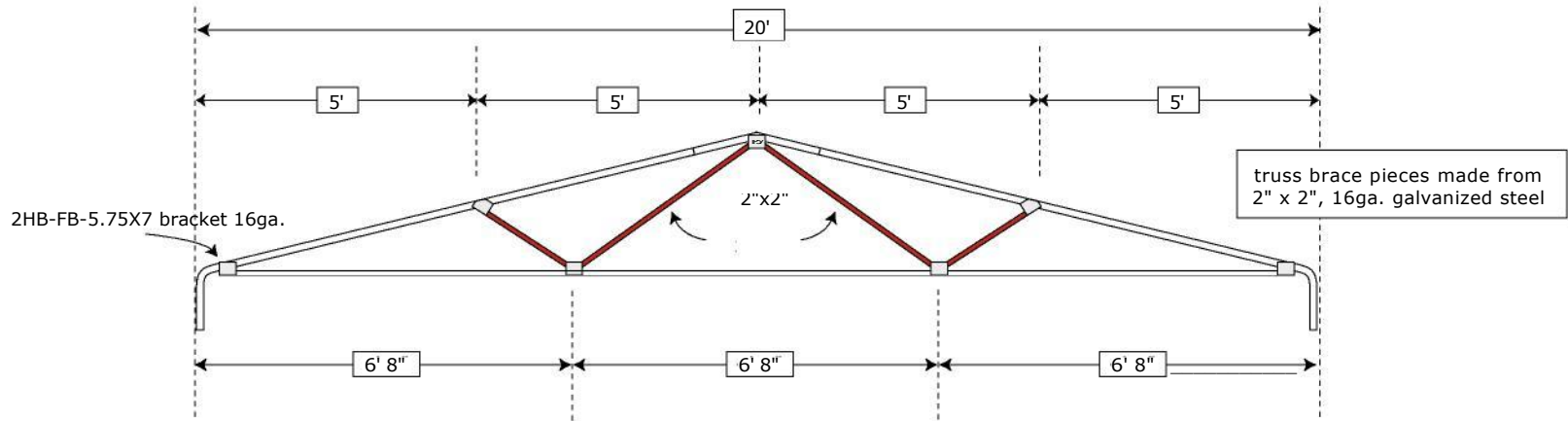
**SCREW SCHEDULE PER BRACKET PER SIDE**

(see bracket page for description of brackets)

- BRACKET A (2HB-FB-5.75X7) ..... 6 Tek screws
- BRACKET B (2HB-FB-5.75X7) ..... 7 Tek screws
- BRACKET C (2HB-FB-2X4) ..... 4 Tek screws
- BRACKET D (2HB-FB-5.75X7) ..... 7 Tek screws
- BRACKET E (2HB-FB-5.75X7) ..... 6 Tek screws
- BRACKET F (2HB-FB-2X4) ..... 4 Tek screws
- BRACKET G (2HB-FB-5.75X7) ..... 7 Tek screws
- BRACKET H (2HB-FB-2X4) ..... 4 Tek screws

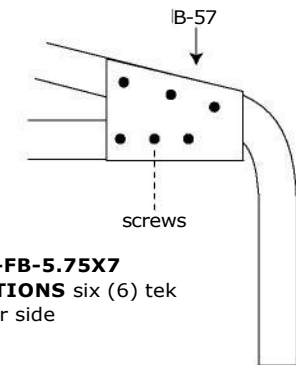
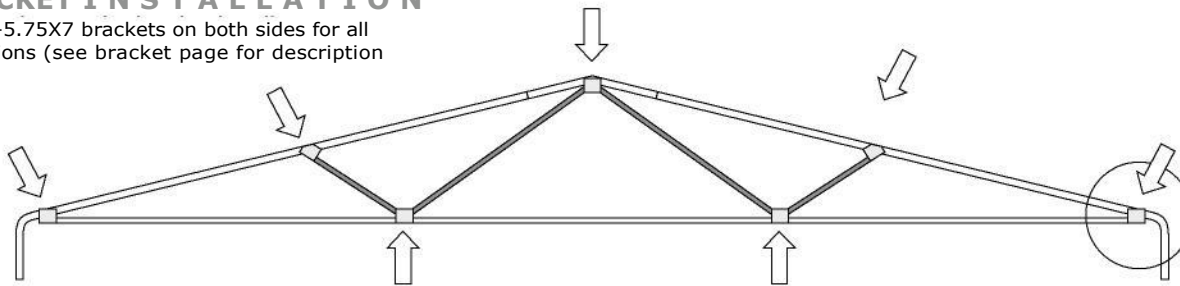


# " W " T R U S S B R A C I N G



## B R A C K E T I N S T A L L A T I O N

2HB-FB-5.75X7 brackets on both sides for all connections (see bracket page for description)



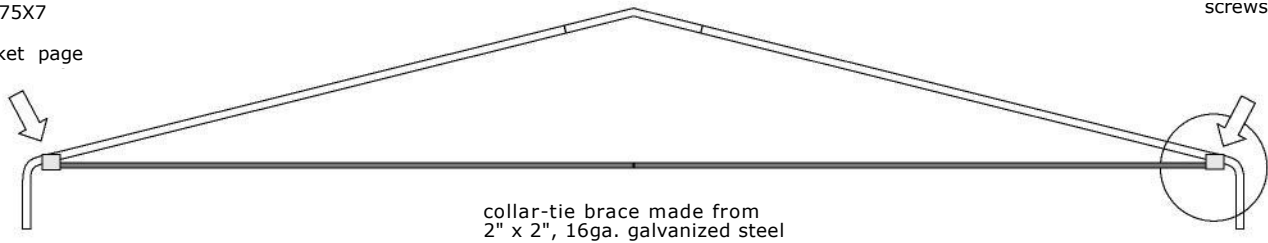
**ALL 2HB-FB-5.75X7 CONNECTIONS** six (6) tek screws per side

# COLLAR-TIE TRUSS BRACING

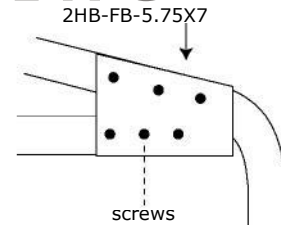
## COLLAR TIE BRACKET INSTALLATION

brackets are applied to both sides of each connection  
(six (6) #14 tek screws per side-SEE DRAWING TO THE RIGHT)

2HB-FB-5.75X7  
bracket  
(see bracket page  
bracket)

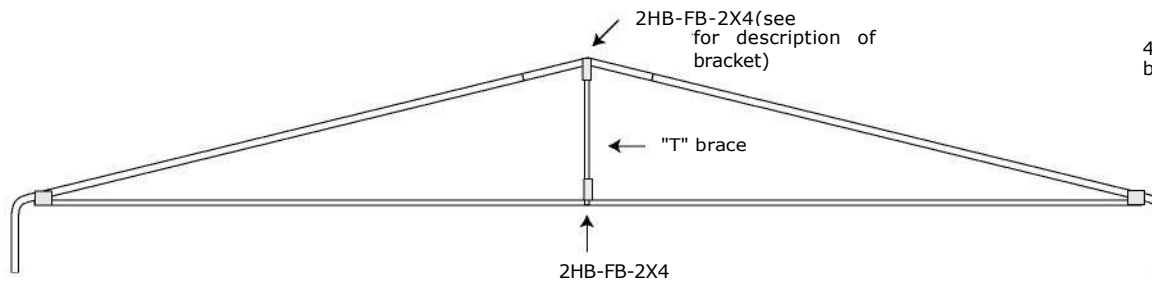


collar-tie brace made from  
2" x 2", 16ga. galvanized steel



The collar-tie brace is installed horizontally from the point of the side-post bend to the point of the side-post bend on the other side of the truss. This brace is secured on **both sides** with our flat metal brackets the "2HB-FB-5.75X7" (5.75" x 7", 16ga. galvanized steel)

## COLLAR-TIE WITH "T" BRACE

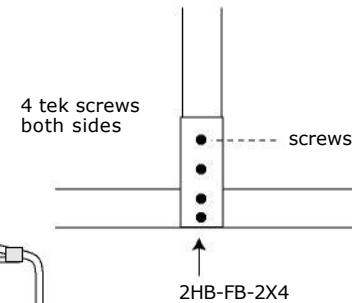


2HB-FB-2X4 (see  
for description of  
bracket)

"T" brace

2HB-FB-2X4

## SAME CONNECTION TOP AND BOTTOM



4 tek screws  
both sides

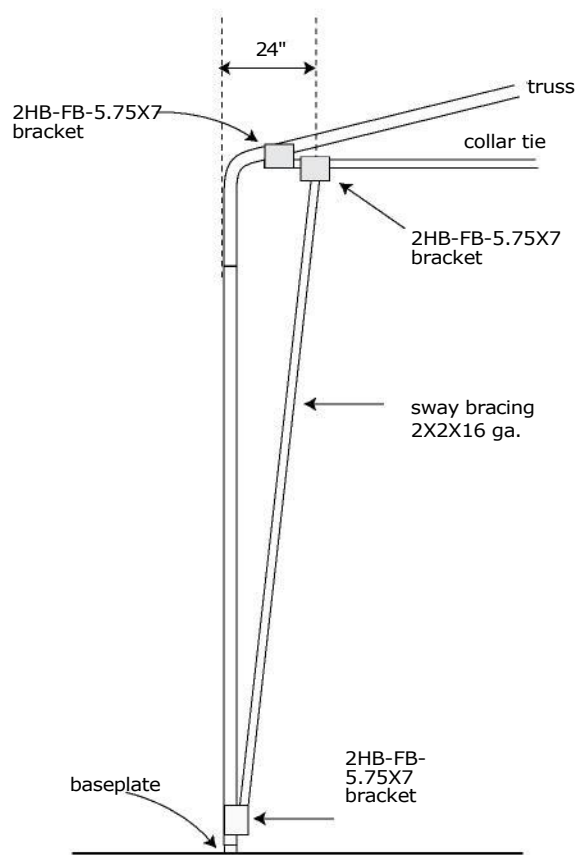
screws

2HB-FB-2X4

# SWAY BRACING

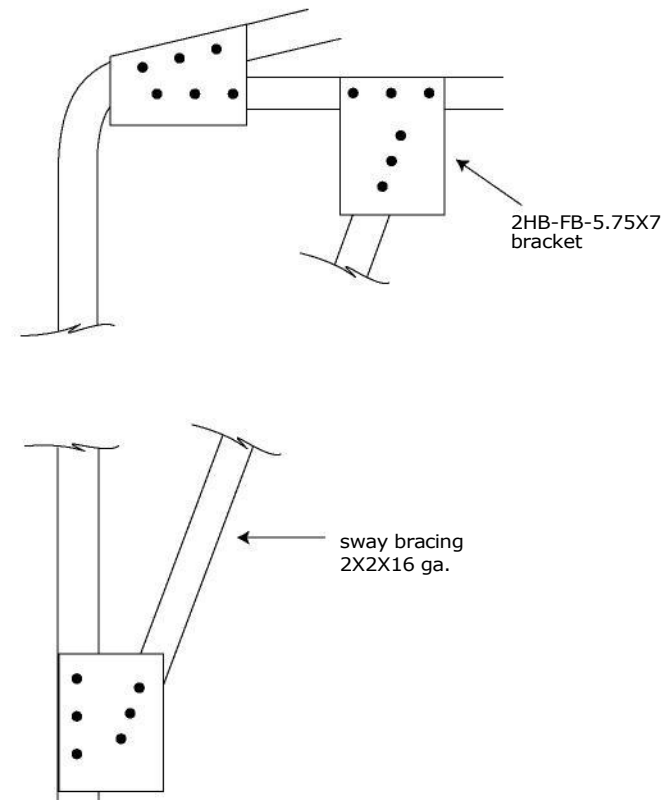
Sway braces are installed vertically from a point 24" in from the corner of the side-post bend down to where the leg/post joins the baseplate (as shown below). This brace is secured with 2HB-FB-2X4 brackets (see bracket page) at both ends of the brace. The brace itself is made from 2" x 2", 16ga. galvanized steel. The brackets are applied on **both sides** of the truss assembly and each bracket gets a total of 6 Tek screws.

**SWAY BRACING DETAIL**

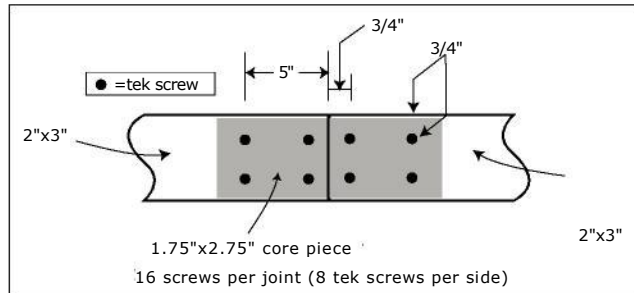


**SWAY BRACING DETAIL**

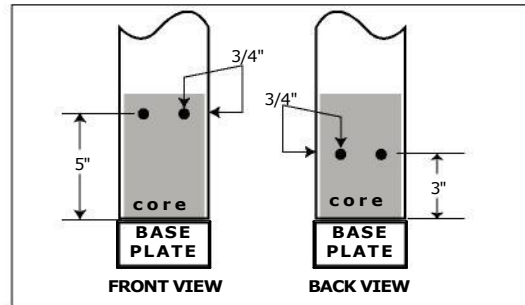
(showing bracket and screw placement)



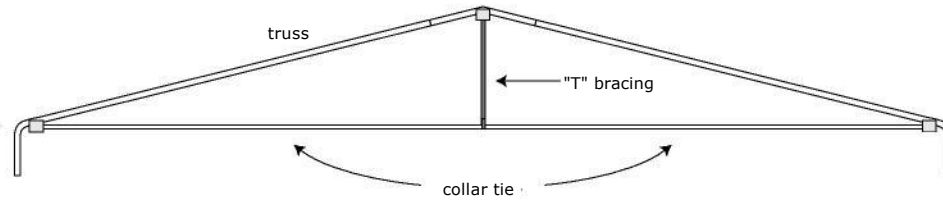
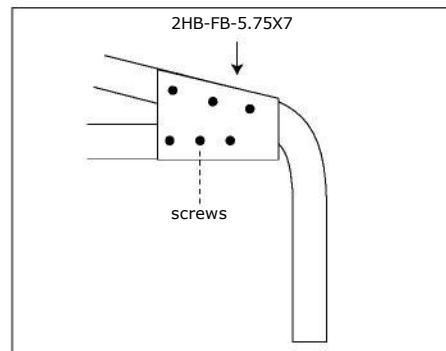
**SCREW SCHEDULE FOR ALL 2" x 3" RECTANGULAR TUBING JOINTS**



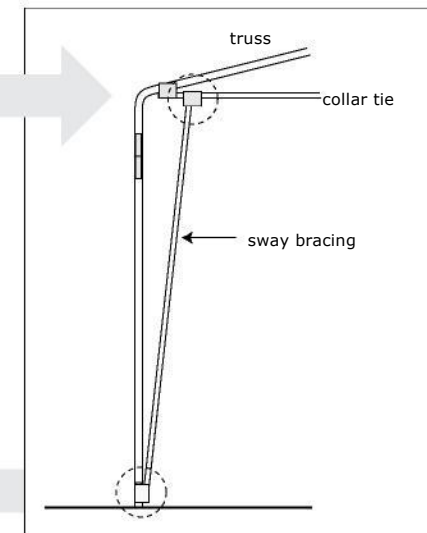
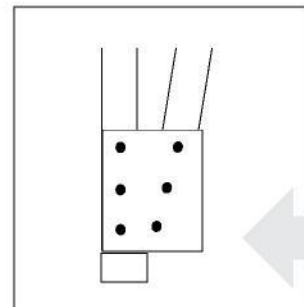
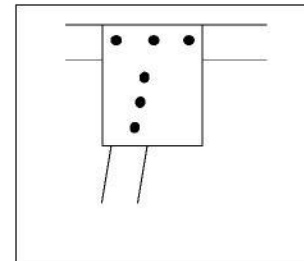
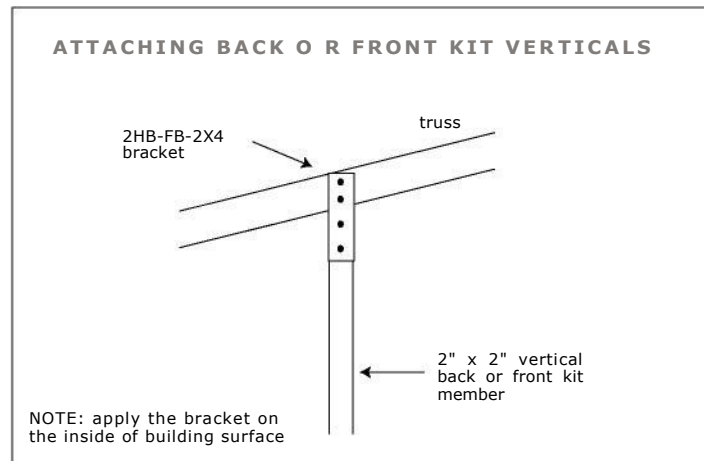
**TRUSS/LEG ASSEMBLY TO BASE PLATE**



**COLLAR-TIE BRACKET TO TRUSS**



**ATTACHING BACK OR FRONT KIT VERTICALS**

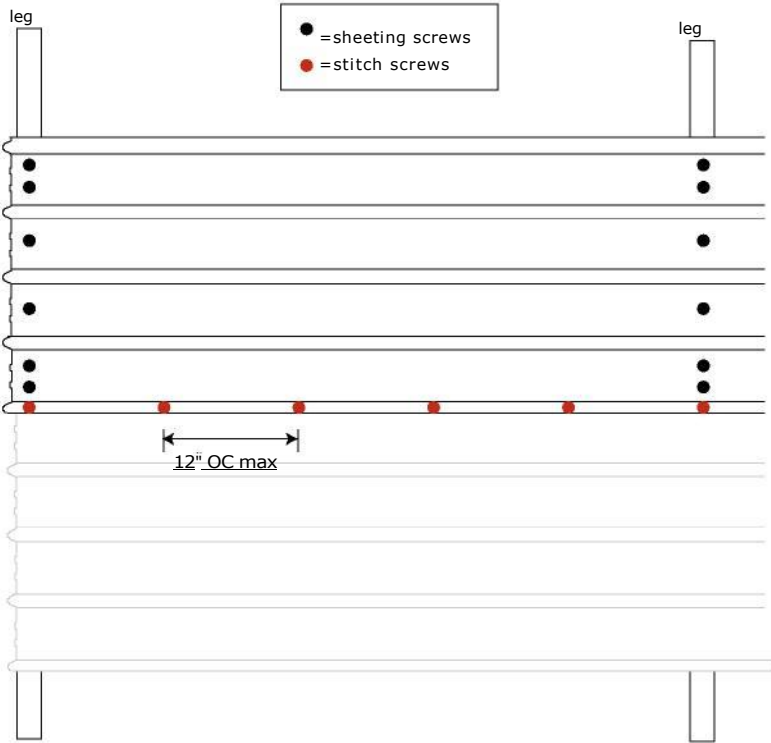
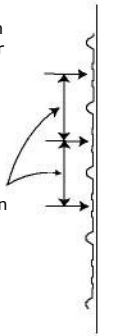


SCREW SCHEDULE FOR 29 ga. HORIZONTAL SHEETING (FRONT, SIDES &

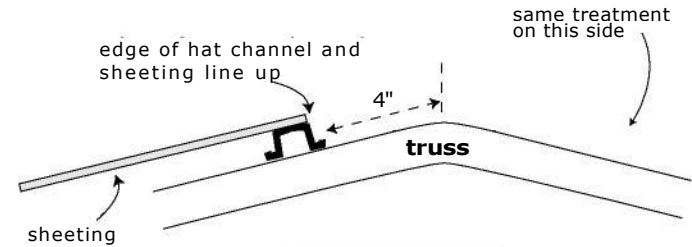
screws to be applied with maximum spacing of 9" on every leg member, plus one screw on the leg member where the sheets overlap or join

9" maximum distance between screws

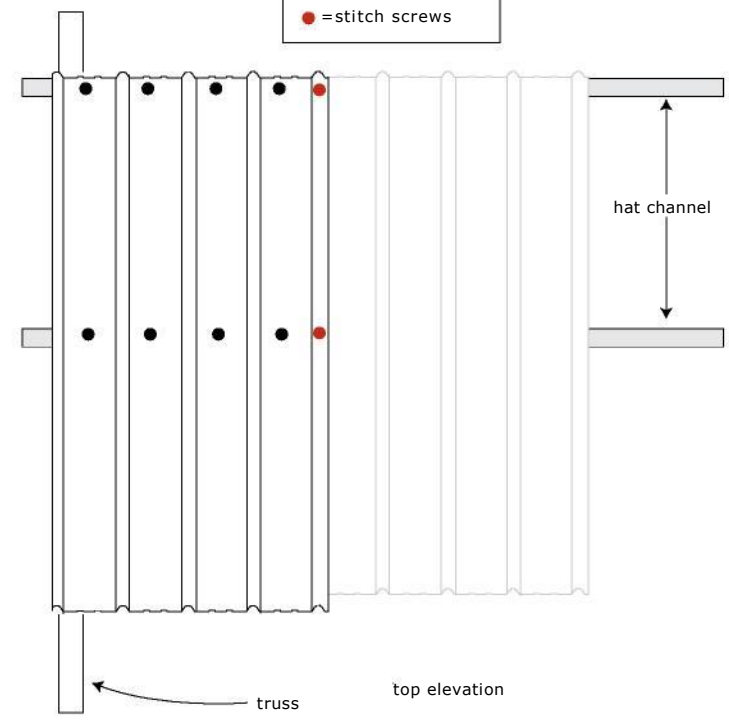
side elevation

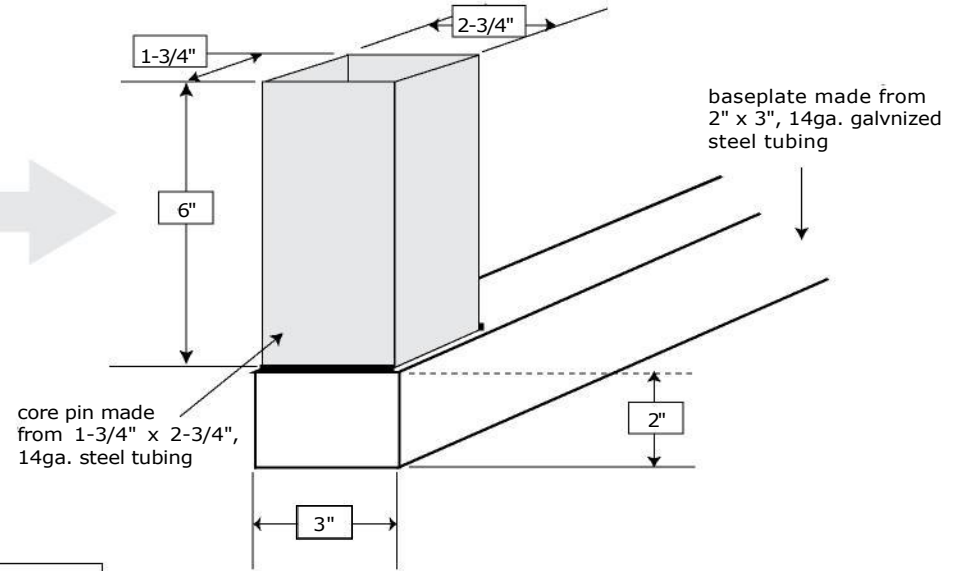
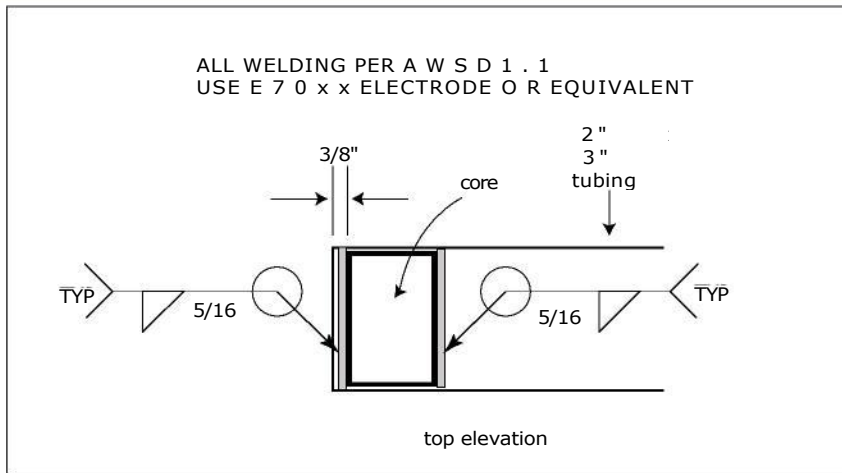


SCREW SCHEDULE FOR 29ga. VERTICAL SHEETING (ROOF)



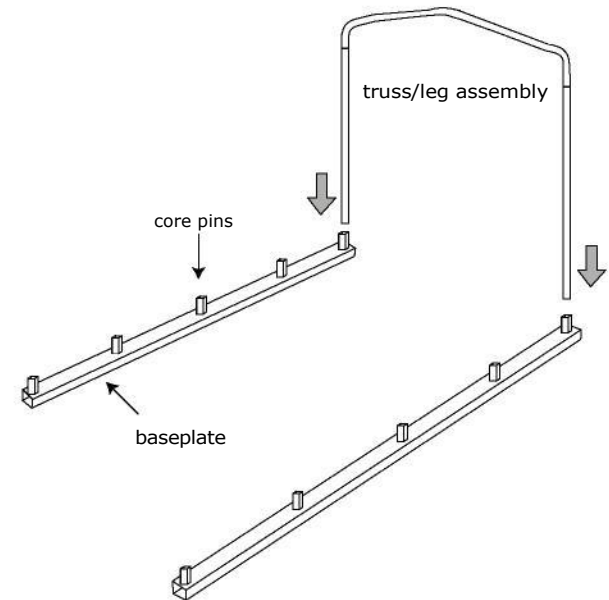
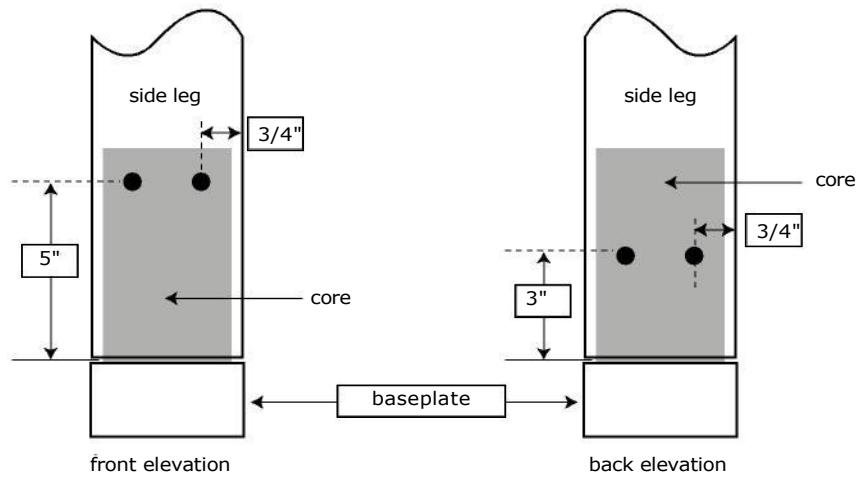
- = sheeting screws
- = stitch screws

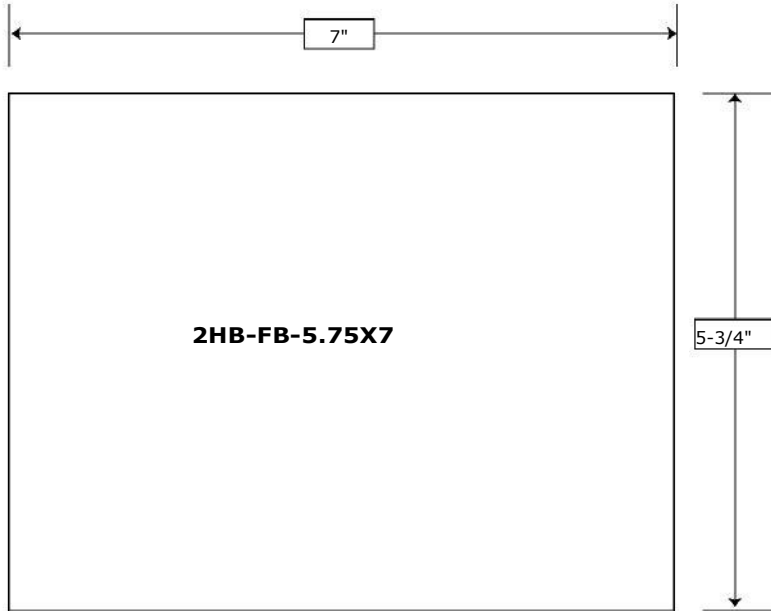




**TRUSS/LEG ASSEMBLY T O B A S E P L A T E (screw pattern)**

The side leg is securely attached to the base plate/core with a total of 2 steel machine "framing" screws on each side of the join. NOTE: The front and back screw placements "offset" each other.





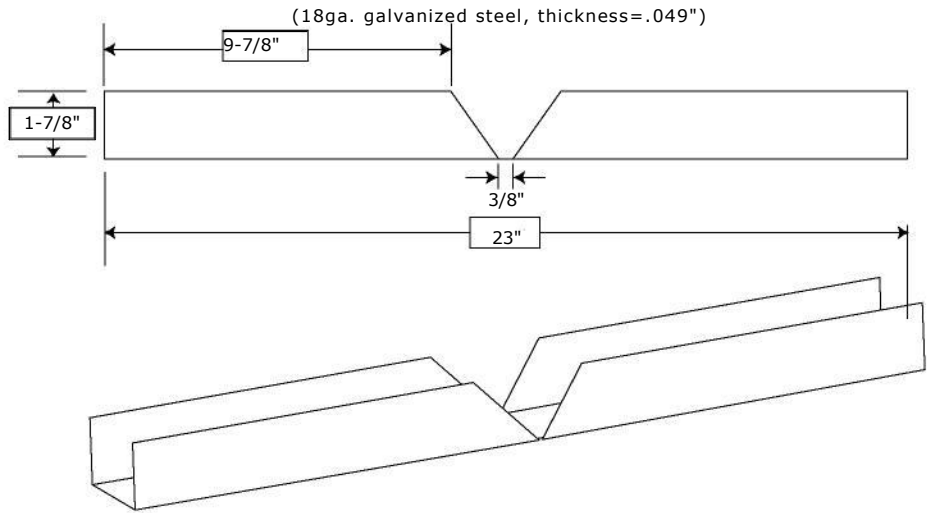
**2HB-FB-5.75X7**

2HB-FB-5.75X7 (5-3/4" x 7", 18ga. galvanized steel,

**CORROSION RESISTANCE**

has a 0.3oz/ft zinc coating coupled with a conversion coating to inhibit white rust. The innovative In-Line Hot-Dip Galvanizing process ensures the surface of the steel is mechanically and chemically prepared before its coated.

**2HB—CBS Square Corner Bracket**



**2HB-FB-1.75X6**

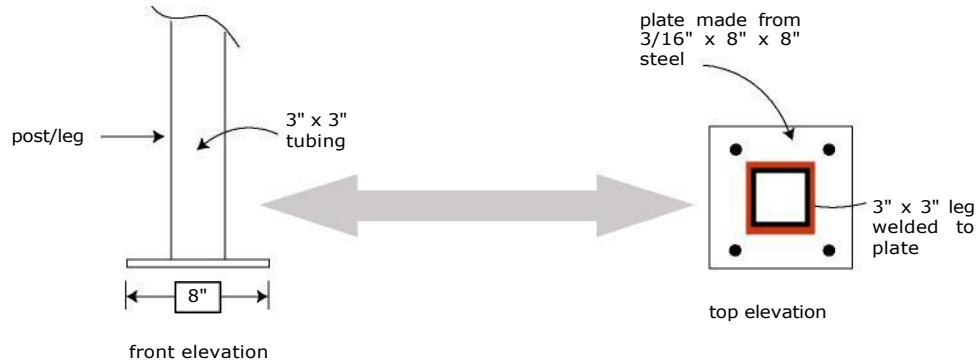
2HB-FB-1.75X6 (1-3/4" x 6", 18ga. galvanized steel,

7" x 5-3/4", 18ga. galvanized plate \_\_\_\_\_ **2HB-FB-5.75X7**

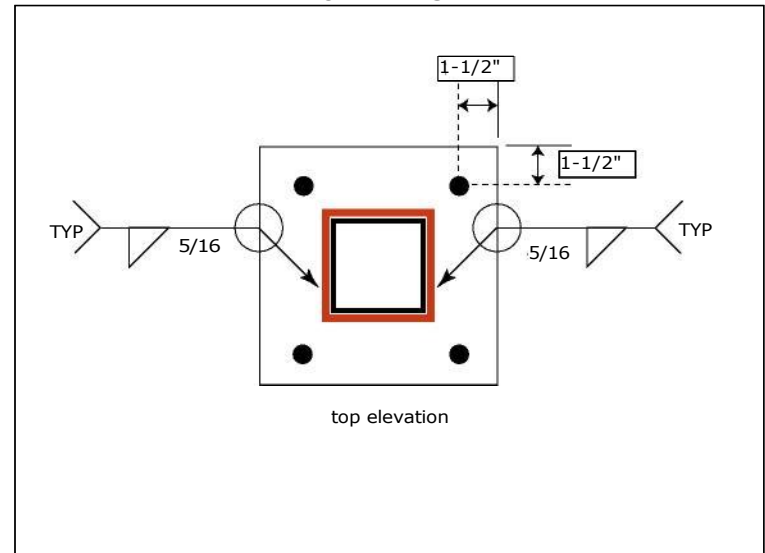
6" x 1-3/4", 18ga. galvanized plate \_\_\_\_\_ **2HB-FB-1.75X6**

2-3/16" x 1-7/8" x 23", 18ga. galvanized plate \_\_\_\_\_ **2HB--CBS**

INDIVIDUAL B A S E P L A T E



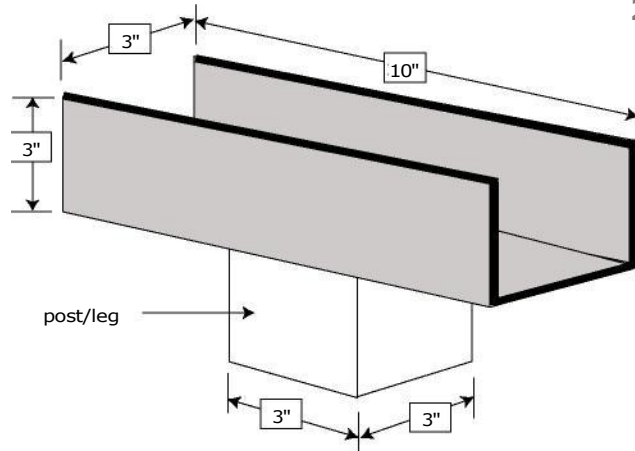
DETAIL O F B A S E P L A T E



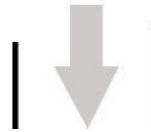
ALL WELDING PER A W S D 1 . 1  
USE E 7 0 x x ELECTRODE O R EQUIVALENT

<p><b>INDIVIDUAL BASEPLATE</b>  <b>8" x 8" x 3/16" plate</b> _____</p>	<p><b>IB BRACKETS</b></p>
--	---------------------------

**2HB-BB-BUCKET BRACKET**

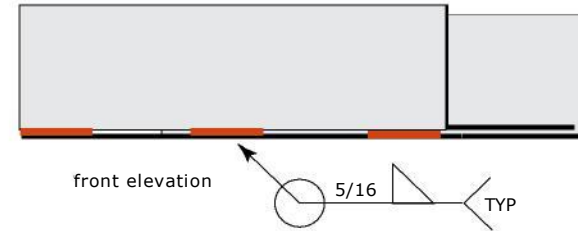


bucket made from  
3" x 3" x 3/16"  
angle iron



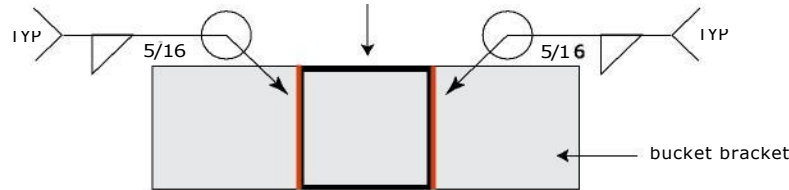
side elevation

ANGLE IRON WELDED ON OUTSIDE EDGE



front elevation

BUCKET WELDED TO POST/LEG  
post



bottom elevation

ANGLE IRON WELDED ON INSIDE EDGE



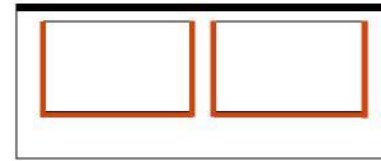
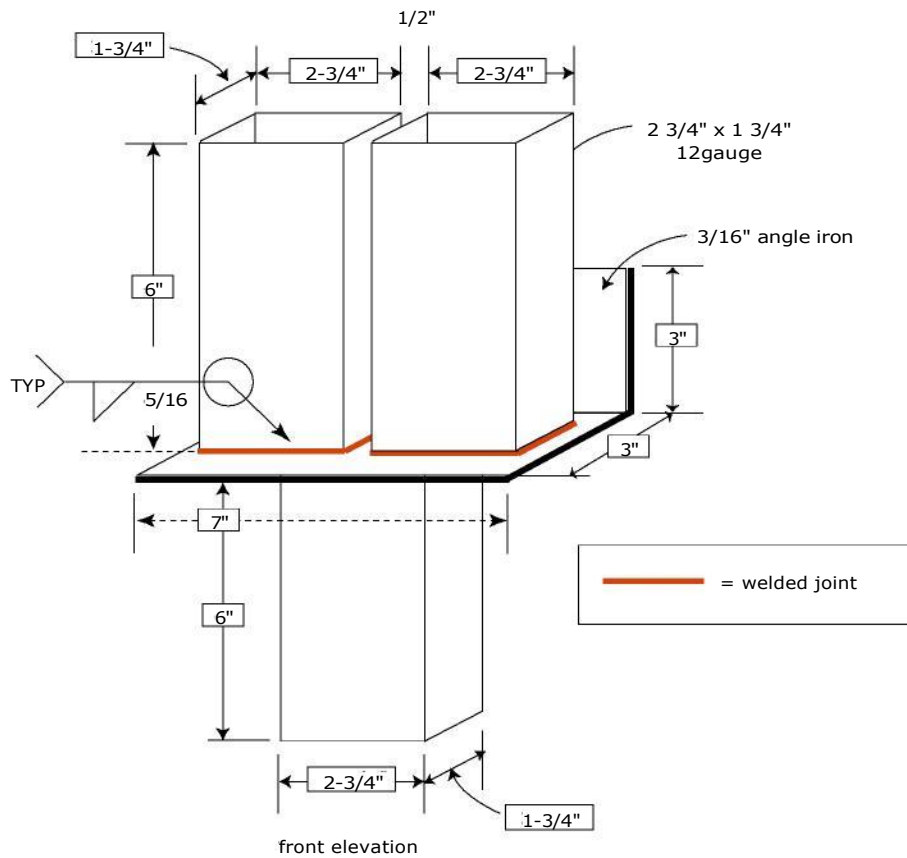
top elevation

ALL WELDING PER A W S D 1 . 1  
USE E 7 0 x x ELECTRODE O R EQUIVALENT

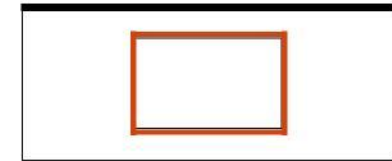
**BUCKET BRACKET**  
1 0 " x 3 " X 3 " x 3 / 1 6 " g a l v a n i z e d 2 H B - B B

2 - 1 PIN BRACKET

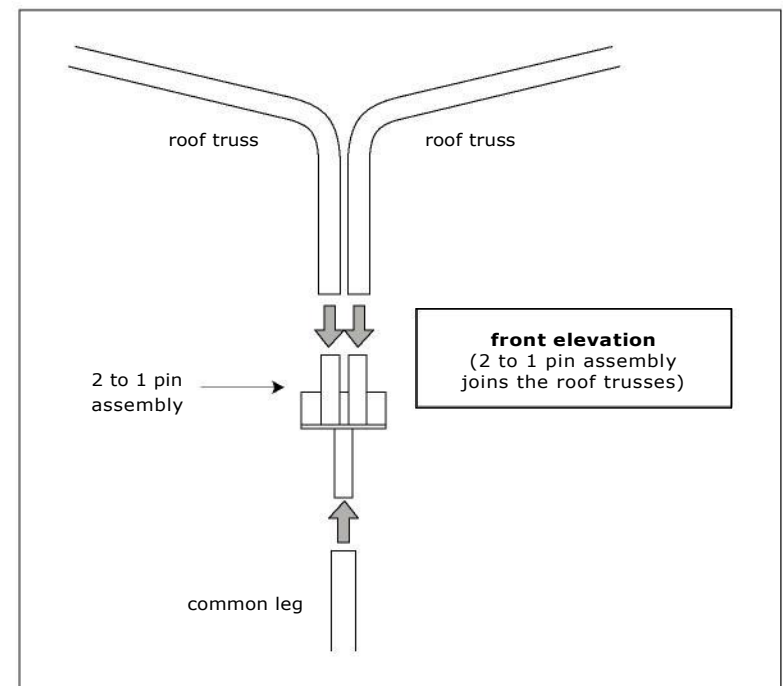
ALL WELDING PER A W S D 1 . 1  
USE E 7 0 x x ELECTRODE O R EQUIVALENT



top elevation



bottom elevation

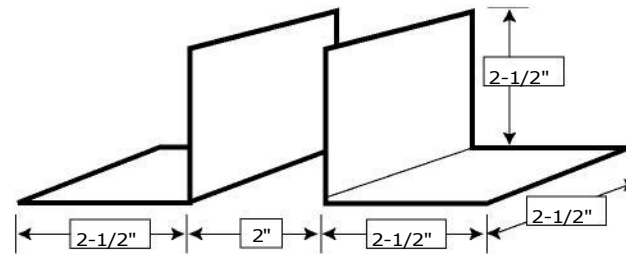


ALL WELDING PER A W S D 1 . 1  
USE E 7 0 x x ELECTRODE O R EQUIVALENT

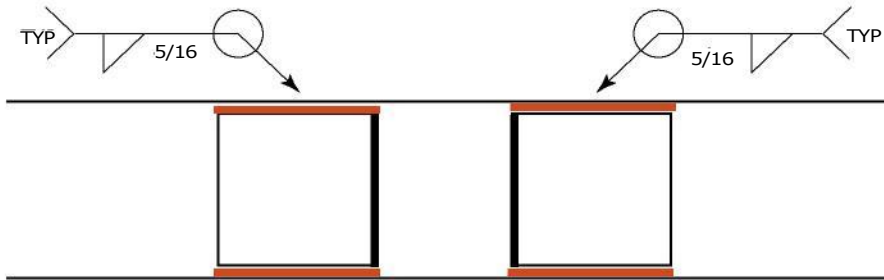
**2-1 PIN BRACKET**  
7" x 3" x 3" x 3/16" plate \_\_\_\_\_ 2HB-2/1PIN

**H E A D E R C U P B R A C K E T**

cup brackets are made from 2-1/2" x 2-1/2" x 3/16" angle iron and are welded to the top of header where they accept the truss or rafter section (as shown below)

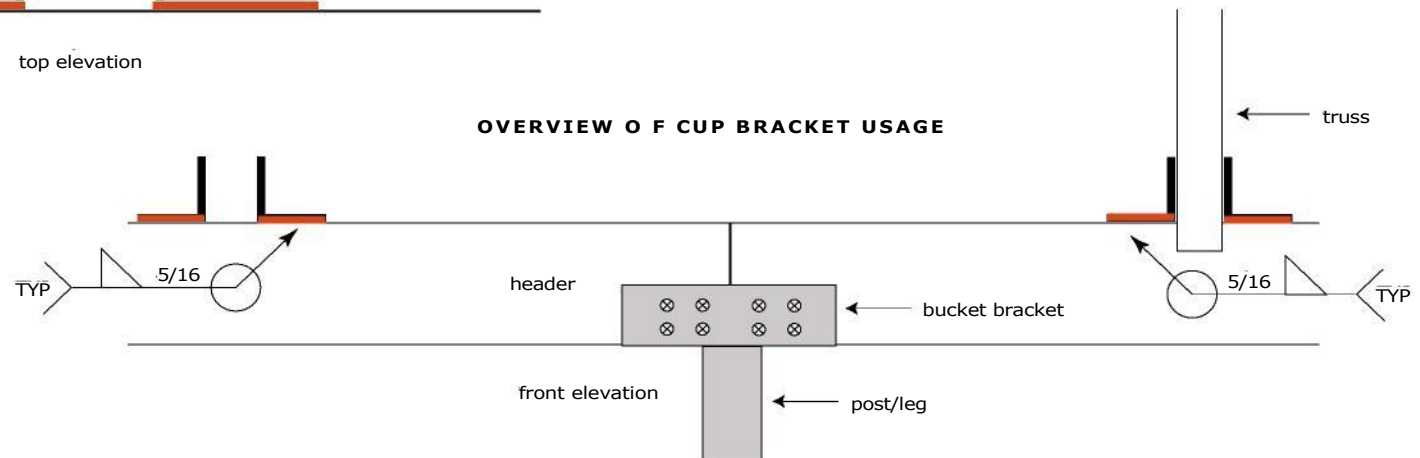


front elevation



top elevation

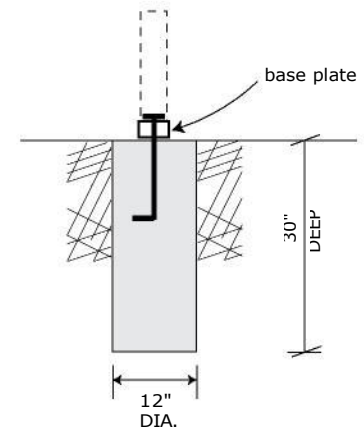
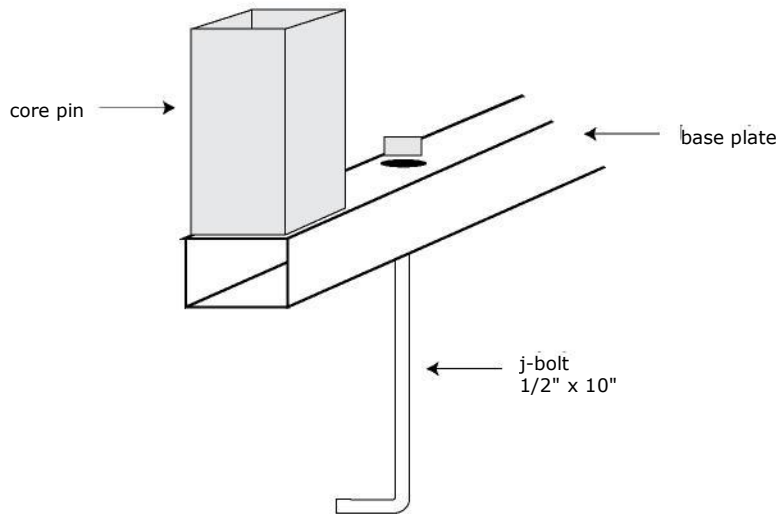
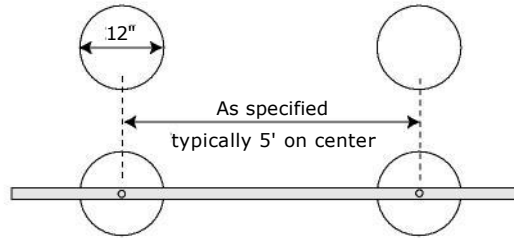
**O V E R V I E W O F C U P B R A C K E T U S A G E**



ALL WELDING PER A W S D 1 . 1  
USE E 7 0 x x ELECTRODE O R EQUIVALENT

**CUP BRACKET**  
8" x 8" x 3/16" plate \_\_\_\_\_ 2HB-HCB

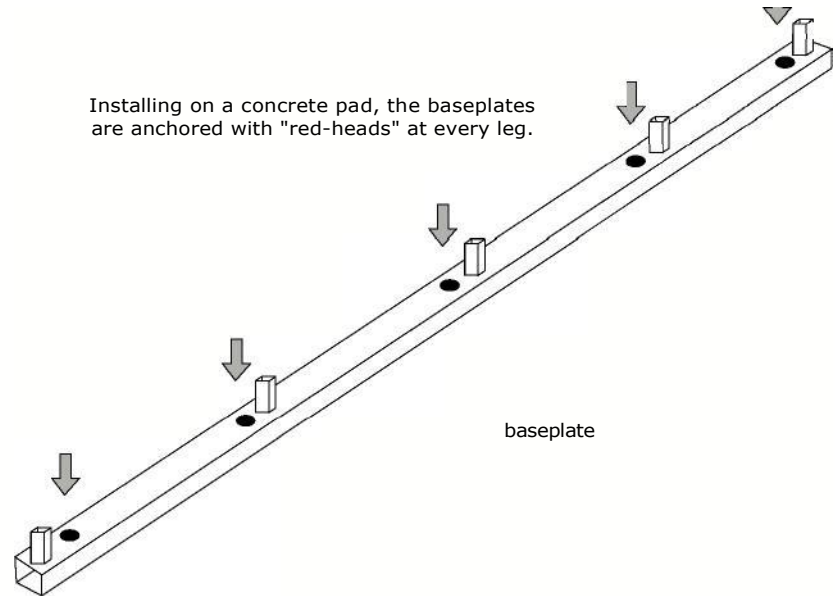
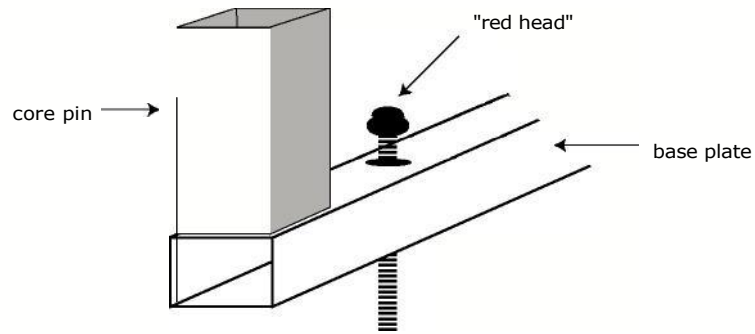
Evacuate for basic footing/anchor in proper locations as shown in "ANCHOR SCHEMATIC". Hole must be minimum 12" in diameter and 30" deep.



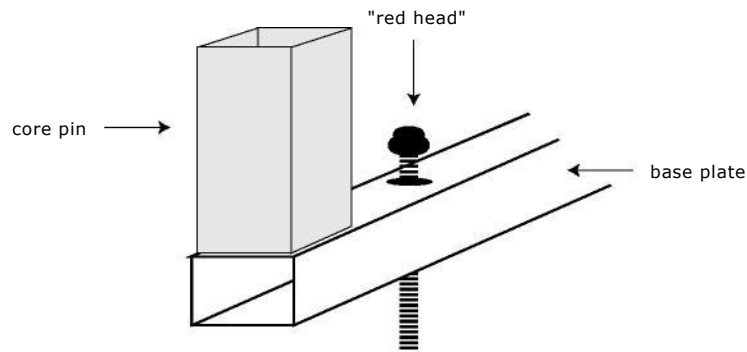
**BASIC FOOTING/ANCHOR DETAIL**

Drill 9/16" diameter hole in the base plate over the center of the anchor/footing hole. Install a 1/2" diameter x 30" foundation core anchor bolt in the base plate which has a washer securely welded to it and this assembly passes through the hole and into the footing. Fill the hole with concrete. Bagged ready-mix is acceptable.

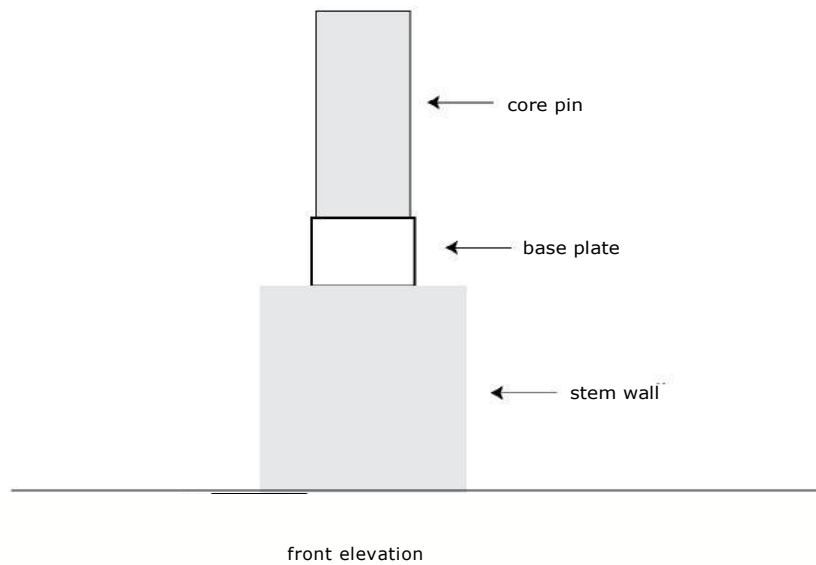
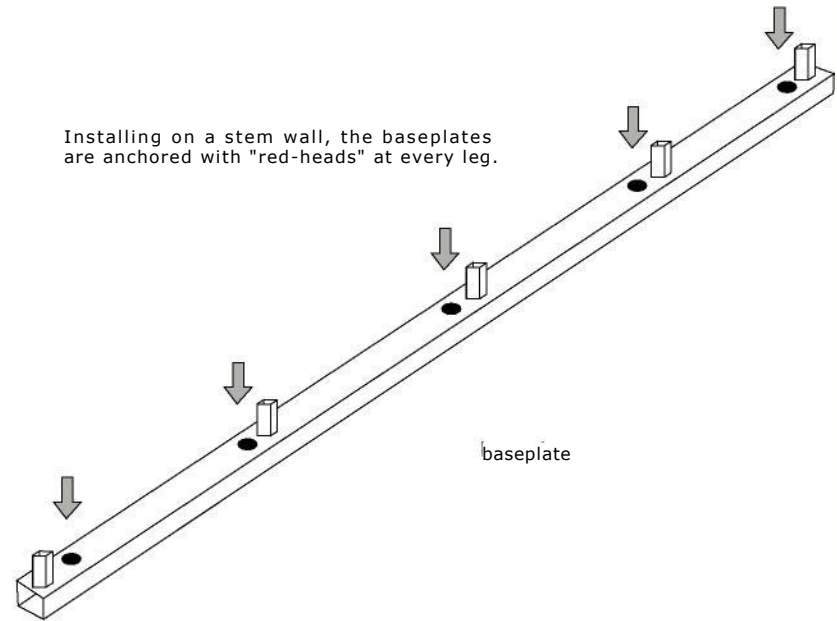
INSTALLING ON EXISTING CONCRETE PAD



INSTALLING ON EXISTING STEM WALL



Installing on a stem wall, the baseplates are anchored with "red-heads" at every leg.



Thank you for considering our **DURA-TUBE BUILDING SYSTEM**.

AFP Metal Products, highly recommends that all **DURA-TUBE BUILDING SYSTEM** Buildings be engineered and erected following all local & State building codes. AFP will provide the wet stamped engineering for your state on any building that you request, We use an offsite Engineering firm to ensure that you receive an unbiased set of engineered plans that will pass the most up to date building codes for your area.

**BUILDING SIZES UP TO 40' WIDE / EAVE HEIGHT UP TO 14' / BUILDING LENGTH UNLIMITED  
ROOF PITCH – 2/12 UP TO 6/12**