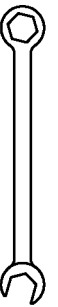
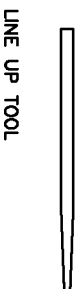


RECOMMENDED TOOLS FOR ASSEMBLY



ASSORTED OPEN END WRENCHES INCLUDING 11/16"



LINE UP TOOL



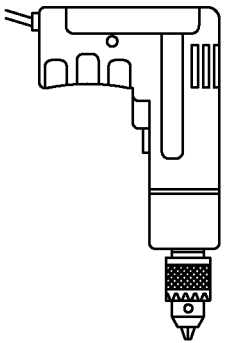
CARPENTERS SQUARE 3' MINIMUM



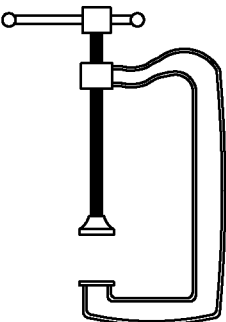
1/2" DRIVE SOCKETS UP TO 1" DIAMETER & 1/2" DRIVE RATCHET



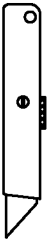
SCREW DRIVERS



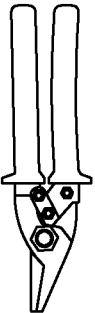
DRILL OR SCREW GUN w/ HEX HEAD & PHILLIPS BITS



(4) C-CLAMPS OR WELDER'S VISE GRIPS



UTILITY KNIFE



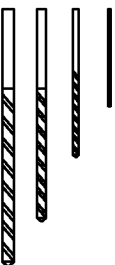
SHEET METAL SNIPS



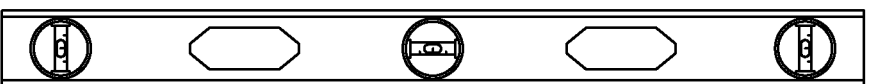
20' MINIMUM LENGTH TAPE MEASURE



VISE GRIPS



DRILL BIT SET UP TO 3/8" DIAMETER



4' LEVEL



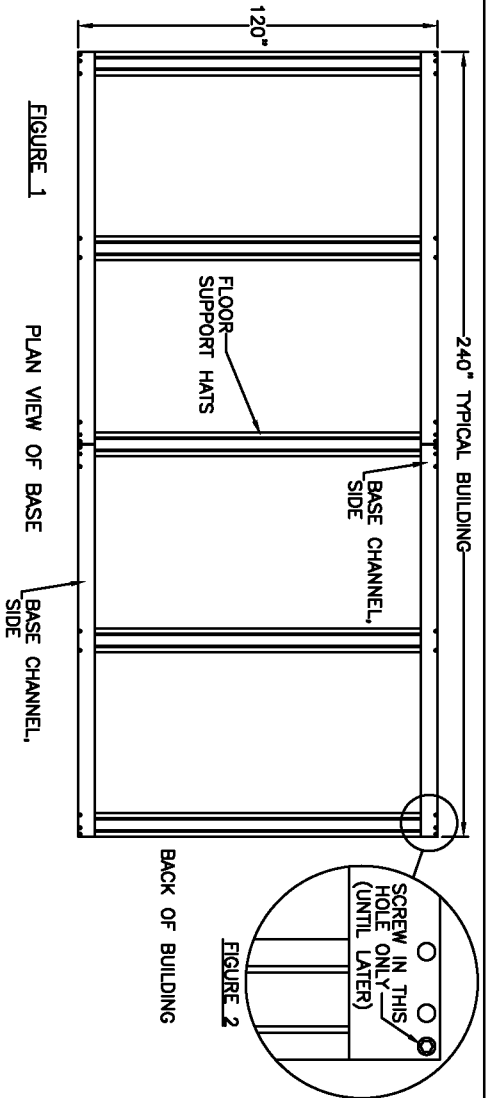


FIGURE 1

PLAN VIEW OF BASE

BASE CHANNEL, SIDE

BACK OF BUILDING

FIGURE 2

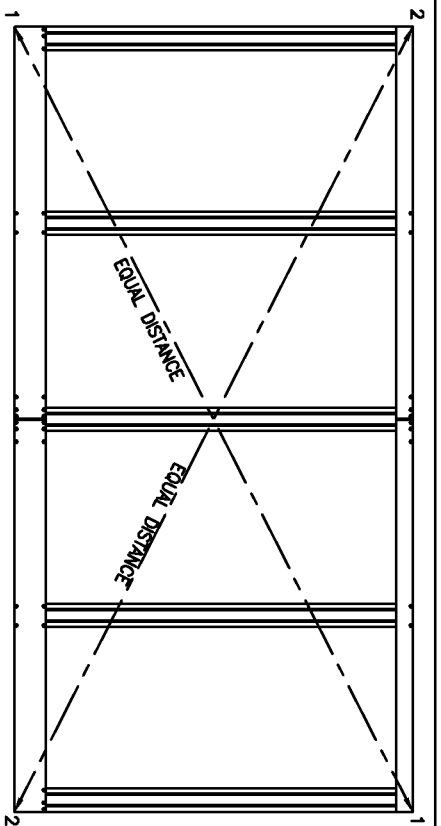


FIGURE 3

PLAN VIEW OF BASE

**STEP 1: BUILDING THE BASE ASSEMBLY**  
 ATTACH FLOOR SUPPORTS TO BASE CHANNEL ON BOTH SIDES (SEE FIG. 1). ATTACH WITH ONE SCREW ONLY ON OUTSIDE CORNER OF ALL SUPPORTS BOTH SIDES (SEE FIG. 2). NOW CHECK BASE FOR SQUARE BY MEASURING DIAGONALLY FROM CORNER TO CORNER (SEE FIG. 3) DISTANCE 1-1 SHOULD EQUAL DISTANCE 2-2. IF NOT, ADJUST BASE LEVEL. THE FRAME OF THE BUILDING IN POSITION ON YOUR SITE.

SEE SHEET 2B FOR INSTALLATION OF OPTIONAL ADJUSTABLE FEET.

**STEP 2: INSTALLING FIRST SHEET OF N-DECK SHEETING**

PLACE A SHEET OF N-DECK ON FLOOR SUPPORTS AND PLACE IT UNDER TOP LEG OF BASE CHANNEL (SEE FIG. 4). REMOVE SCREWS FROM THE BASE CHANNEL ON THE SIDE YOU PLACED THE N-DECK. BE CAREFUL NOT TO MOVE ANY PART OF THE BUILDING NOW INSTALL THE SCREWS THROUGH BASE CHANNEL, N-DECK AND SUPPORT HATS.

**STEP 3: INSTALLING THE REMAINING N-DECK SHEETS**

PLACE THE REMAINING SHEETS OF N-DECK ON THE BUILDING FLOOR SUPPORTS. SQUARE DECK SHEETS TO SUPPORTS, KEEPING ENDS EVEN WITH BOTH EDGES OF OUTSIDE SUPPORT HATS. PLACE LAST SHEET UNDER "BASE CHANNEL BACK" (SEE FIG. 4). NOW ATTACH DECK SHEETS TO FLOOR SUPPORTS WITH #14 1/4" x 3/4" SELF DRILLING SCREWS. USE (8) SCREWS AT EACH SUPPORT HAT FOR EACH PIECE OF DECK, OR (2) SCREWS AT ALL LOW CORRUGATION SURFACES (LOW RIBS) OF N-DECK.

**STEP 4: DIAMOND PLATE INSTALLATION**

POSITION DIAMOND PLATE FLOOR SHEETS ON N-DECK AS SHOWN ON PAGE 2. ATTACH DIAMOND PLATE SHEETS TO DECK WITH #8 1/8" x 1/2" ROUND HEAD PHILLIPS DRIVE SCREWS (SEE FIG. 5).

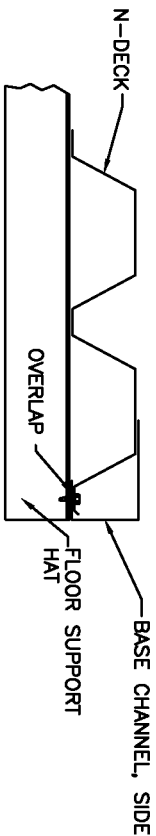


FIGURE 4

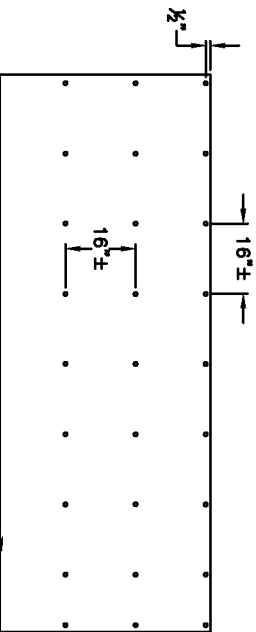


FIGURE 5

PLACE SCREWS ON 16" PATTERN MAKE ADJUSTMENT IN SPACING SO SCREWS HIT FLAT OF DECK. OMIT SCREWS ON PERIMETER OF END SHEETS ONLY.



STEP 1a: INSTALLING THE ADJUSTABLE FEET  
SCREW A BOLT & WASHER WELDMENT INTO EACH OF THE NUTS LOCATED ON THE  
BOTTOM OF FLOOR SUPPORT HATS. SCREW THE BOLTS IN 1/2 OF THEIR THREAD  
LENGTH AS SHOWN (SEE FIG. 1a).

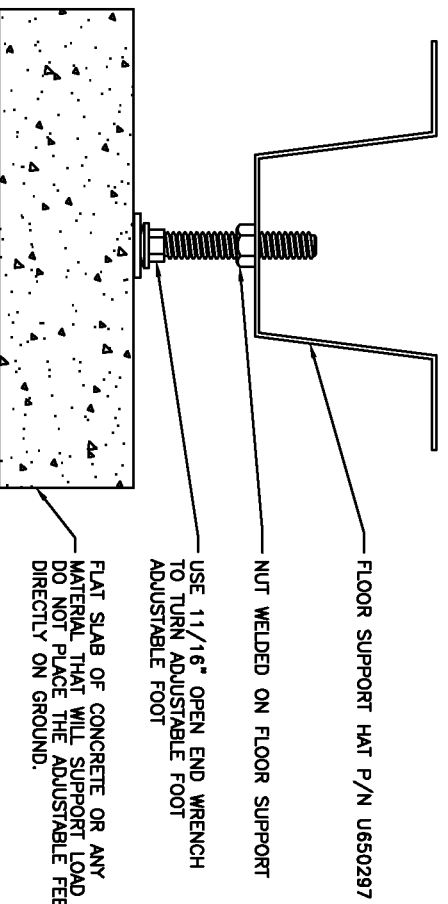


FIGURE 1A



**NOTE:** PROTECTIVE PLASTIC MAY BE PEELLED BACK IN ATTACHMENT AREAS ONLY AT THIS TIME. LEAVE ALL OTHER AREAS COVERED FOR PROTECTION UNTIL BUILDING IS COMPLETE. ALL FIGURES SHOWN AT RIGHT ARE IN "PLAN VIEW" LOOKING DOWN FROM ABOVE.

**STEP 5: CORNER BASE PLATES**  
 ATTACH CORNER BASE PLATES (SEE FIG. 6) WITH (5) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS FOR EACH PLATE. ONE BASE PLATE IS REQUIRED AT EACH CORNER OF BUILDING.

**STEP 6: PIERS**  
 BOLT PIERS TO BASE PLATES USING 1/2x 1 FLAT HEAD FIN BOLTS (SEE FIG. 7). PIERS USED AT FRONT WALL ARE A DIFFERENT LENGTH THAN THOSE USED AT BACK WALL (SEE PAGE 3 FOR CORRECT LENGTH). LEAVE FASTENERS FINGER TIGHT UNTIL FINAL SQUARING.

**STEP 7: HEADER**  
 BOLT HEADER TO PIERS USING (3) 1/2x 1 1/4 HEX HEAD BOLTS ON EACH END OF HEADER. USE A FLAT WASHER ON BOTH PIER AND HEADER SIDES. ALIGN TOP OF HEADER WITH TOP OF PIERS PRIOR TO FINAL TIGHTENING OF BOLTS (SEE FIG. 8).

**STEP 8: TOP PLATES**  
 ATTACH TOP PLATES TO THE PIERS THAT HAVE HEADERS BOLTED TO THEM USING 1/2x 1 1/4 HEX HEAD BOLTS, NUT AND (2) FLAT WASHERS. BOLT TOP CORNER PLATE WITH (1) BOLT ON THE SAME SIDE AS HEADER IS ATTACHED (SEE FIG. 9). REMAINING FASTENERS AND TOP PLATES WILL BE INSTALLED AT A LATER TIME.

**STEP 9: DOOR MOUNTING ANGLES**  
 ATTACH THE 3 x 3 x 16" LONG DOOR MOUNTING ANGLES TO TOP OF CORNER PIERS LOCATED AT ROLL UP DOOR OPENINGS. POSITION 2" FROM TOP OF PIER (SEE FIG. 10).

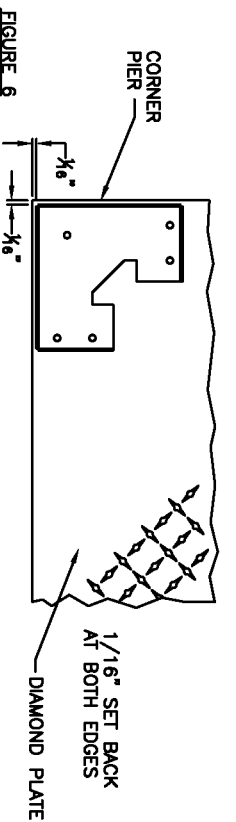


FIGURE 6

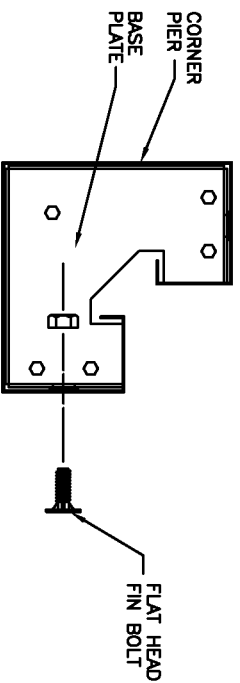


FIGURE 7

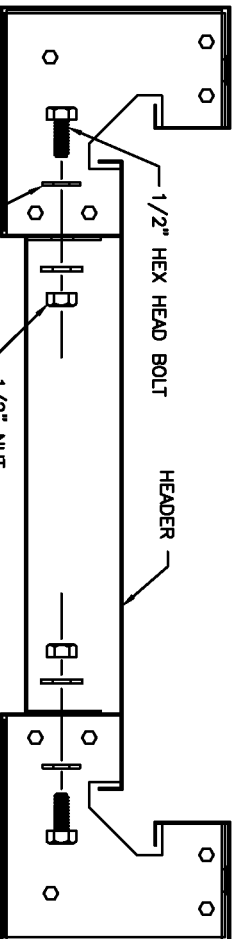


FIGURE 8

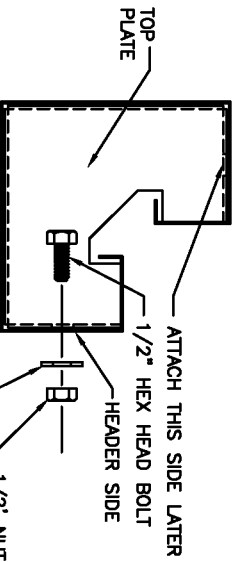


FIGURE 9

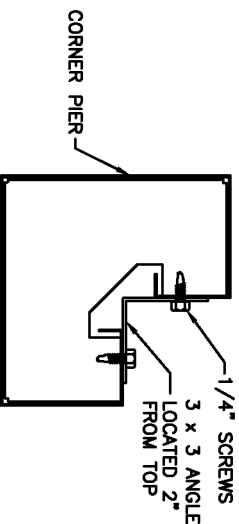


FIGURE 10

**STEP 10: DRIP EDGES**  
 ATTACH WALL DRIP EDGE PIECES TO SIDE AND BACK WALLS. SIDE WALLS REQUIRE (2) PIECES 110 3/4" LONG. BACK WALL REQUIRES (1) PIECE 101 3/4" LONG. ATTACH WITH 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS (SEE FIG. 11).

**STEP 11: SETTING FLOOR CLIP ANGLES**  
 USING ONE OF THE SIDE WALL GIRTS AS A "SPACER" LOCATE THE FLOOR CLIP ANGLE FOR THE SIDE WALL STUDS. USE THE SAME PROCEDURE FOR THE BACK WALL  
 ATTACH EACH CLIP WITH (2) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS (SEE FIGURES 12, 12A AND 12B).

**STEP 12: ERECTING STUDS**  
 ATTACH THE 4" x 2" VERTICAL STUDS TO FLOOR CLIPS USING (2) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS (SEE FIG. 13). NOTE: SEE PAGE 4 FOR CORRECT STUD LENGTHS.

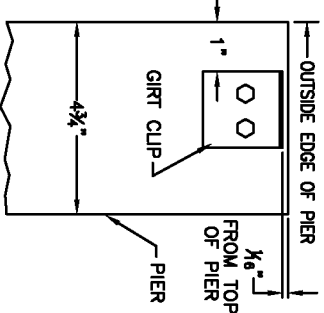
**STEP 13: INSTALLING GIRTS CLIPS**  
 ATTACH HORIZONTAL GIRTS TO BOTH SIDES OF EACH STUD. LOCATE TOP SIDE OF CLIP 50" FROM FLOOR (SEE FIG. 14) AND PAGE 4 OF INSTRUCTIONS TO DETERMINE WHICH CORNER PIERS RECEIVE CLIPS.

**STEP 14: INSTALLING GIRTS**  
 ATTACH HORIZONTAL GIRTS USING (2) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS AT EACH END. YOU SHOULD HAVE APPROXIMATELY 1/8" CLEARANCE BETWEEN STUD AND END OF GIRT (FIG. 16). NOTE: BEFORE ATTACHING LAST GIRT ON EACH WALL BE SURE TO CHECK DISTANCE BETWEEN CORNER PIERS (SEE FIG. 17).

**STEP 15: ZEE PURLINS**  
 ATTACH (3) 6" ZEE PURLINS TO VERTICAL STUDS LOCATED AT SIDE WALLS OF BUILDING. FASTEN WITH (4) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS AT EACH STUD. ZEE IS TO SET 1/4" IN FROM OUTSIDE EDGE OF STUDS. BE SURE SPACE BETWEEN STUDS ARE THE SAME AT FLOOR LEVEL AS IT IS AT THE TOP ROOF LEVEL. THE STUDS MUST BE PLUMB (SEE FIG. 18).

**STEP 16: INSTALLING TOP ANGLE CLIPS**  
 ATTACH A GIRT CLIP AT TOP CORNER OF OUTSIDE CORNER PIERS (SEE FIG. 19 AND PAGE 4 OF INSTRUCTIONS TO DETERMINE WHICH CORNER PIERS RECEIVE CLIPS). NOW IS THE TIME TO FINISH INSTALLING CORNER PIER TOP PLATES PARTIALLY INSTALLED IN STEP 8.

**STEP 17: INSTALLING TOP ANGLE AND BACK WALL TOP CAP FASTEN TOP ANGLE TO CLIPS WITH (2) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS AT EACH END (SEE FIG. 20 FOR PLACEMENT).**  
 FASTEN TOP CAP CHANNEL TO EACH STUD WITH (4) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS AND END CLIPS WITH (2) 1/4x 3/4 HEX HEAD SELF DRILLING SCREWS (SEE FIG. 21).



Page 4A FIGURE 19

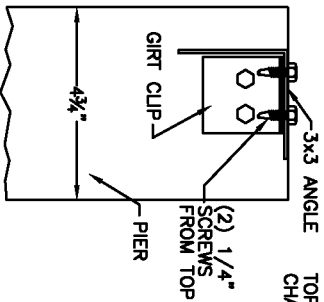


FIGURE 20

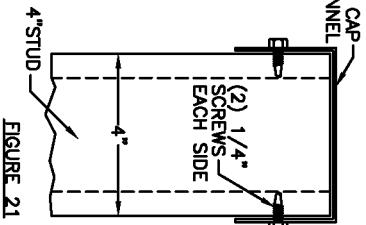
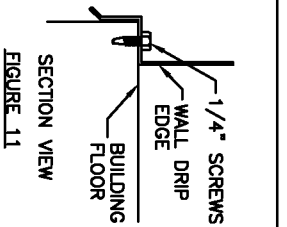
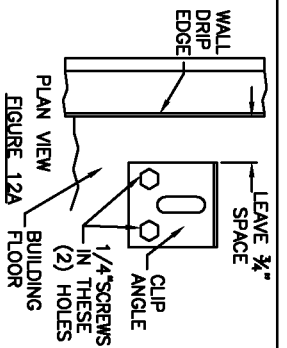


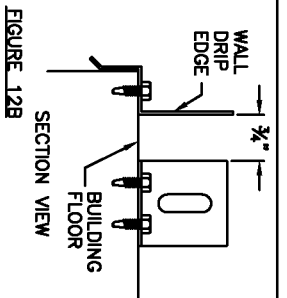
FIGURE 21



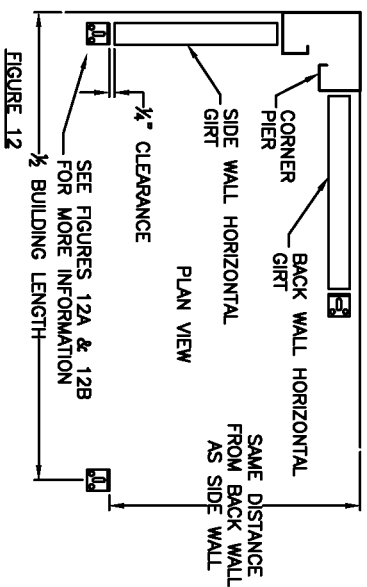
SECTION VIEW FIGURE 11



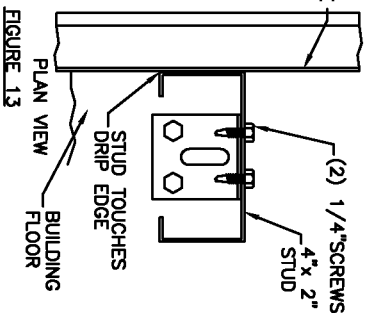
PLAN VIEW FIGURE 12A



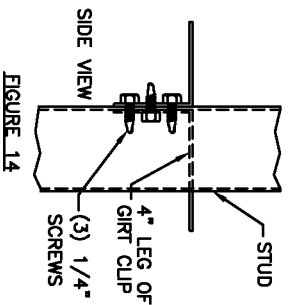
SECTION VIEW FIGURE 12B



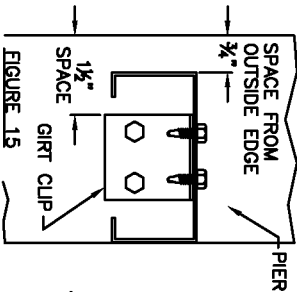
PLAN VIEW FIGURE 12



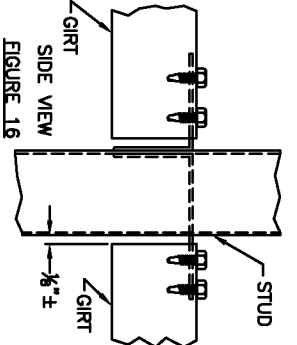
PLAN VIEW FIGURE 13



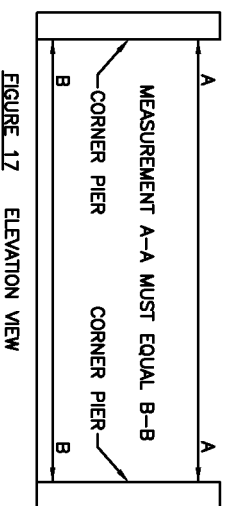
SIDE VIEW FIGURE 14



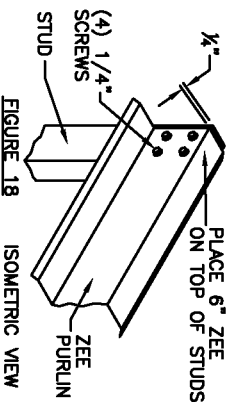
PLAN VIEW FIGURE 15



SIDE VIEW FIGURE 16



ELEVATION VIEW FIGURE 17



ISOMETRIC VIEW FIGURE 18

**STEP 18: J-TRIMS**  
 ATTACH J-TRIM TO THE CORNER PIERS THAT HAVE WALL PANELS ABUTTING THEM. SEE PAGE 5 FOR PANEL LOCATIONS AND J-TRIM LENGTHS (SEE FIG. 22).

**STEP 19: VERTICAL WALL D-PANELS**  
 START AT ANY CORNER RECEIVING D-PANEL AND ATTACH THE FIRST PANEL (SEE FIGS. 23 & 24). REFER TO PAGE 5 FOR CORRECT PANEL LENGTHS TO USE AS PANEL LENGTH DIFFERS DEPENDING ON LOCATION. PLACE A FOAM RUBBER CLOSURE ON INSIDE OF SHEET AT THE TOP AND BOTTOM ENDS OF THE SHEET, BEFORE ATTACHING FIRST PANEL. CONFIRM PIER IS SQUARE TO FLOOR (USE A 36" CARPENTER SQUARE FOR THIS). ATTACH SHEET WITH (9) PAINTED #8 SCREWS.

**STEP 20: INSTALLING REMAINING D-PANELS**  
 COMPLETE ALL REMAINING WALLS SIMILAR TO STEP 19, REMEMBER TO SQUARE PIERS PRIOR TO ATTACHING PANEL.

**STEP 21: TOP TRIM ANGLE**  
 INSTALL 2" x 1" TOP TRIM ANGLE ON TOP OF BACK WALL WITH COLOR MATCHING #8 SCREWS (SEE FIG. 25).

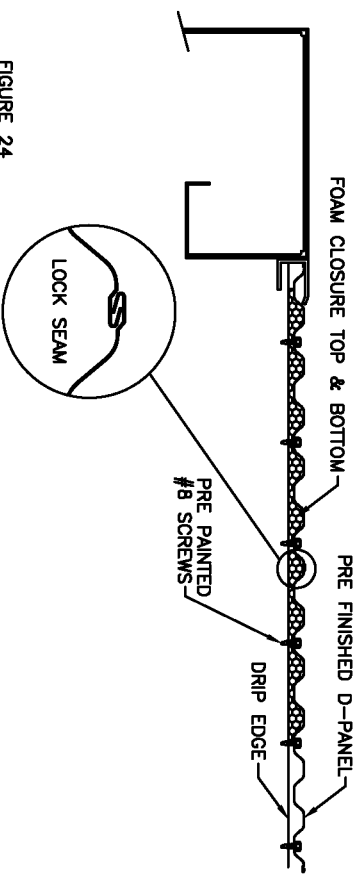


FIGURE 24

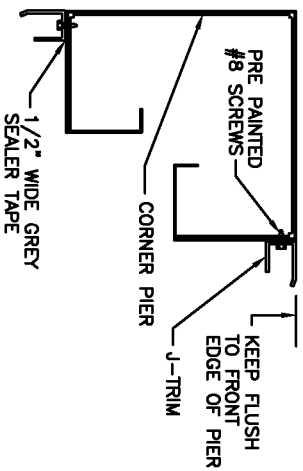


FIGURE 22

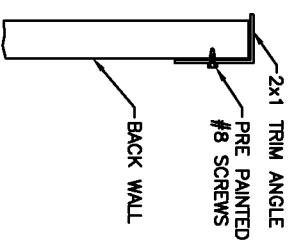


FIGURE 25

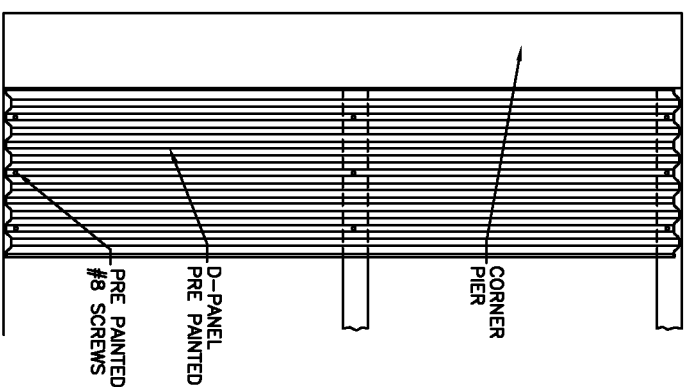


FIGURE 23

**STEP 22: OPTIONAL INSULATION**

BUILDINGS WITHOUT OPTIONAL INSULATION PACKAGE: PROCEED TO STEP 23  
 ROLL OUT INSULATION ON GROUND AND CUT INTO LENGTHS 2" SHORTER THAN BUILDING LENGTH.  
 APPLY 1" WIDE DOUBLE SIDED TAPE TO FRONT WALL, BACK WALL AND TOP OF CENTER ZEE  
 PURLIN (SEE FIG. 26A & 26B). PLACE INSULATION ON BUILDING WITH VINYL SIDE DOWN.

**STEP 23: CLOSURES & FIRST ROOFING PANEL**

ATTACH A VINYL CLOSURE STRIP ON BOTH FRONT AND BACK WALLS OF BUILDING (SEE FIG. 27A)  
 PLACE 36" WIDE ROOF PANEL ON TOP OF BUILDING. KEEP PANEL FLUSH WITH HIGH END OF  
 BUILDING AND EVEN WITH THE SIDE OF THE BUILDING. ATTACH ROOF PANEL WITH 1/4" RUBBER  
 WASHER ROOF SCREWS (9) PER PANEL AS SHOWN (SEE FIG. 27B).

**STEP 24: BALANCE OF ROOFING PANELS**

PLACE THE 1/2" WIDE TAPE SEALER ON EDGE OF SECOND PANEL ALONG THE ENTIRE LENGTH.  
 SLIDE PANEL INTO PLACE AND INSERT SCREWS ON SEAM (SEE FIG. 28). REPEAT PROCEDURE  
 ABOVE FOR ALL PANELS UNTIL ROOF IS COMPLETE. NOTE: LAST SHEET WILL BE 1 1/2" WIDE  
 (SEE FIG. 29B).

**STEP 25: ROOF TRIM**

ATTACH TRIM TO BOTH SIDES OF BUILDING (SEE FIGS. 29A & 29B). NOTE: SHAPE OF TRIM IS  
 DIFFERENT FOR FIRST 36" PANEL AND LAST 11 1/2" PANEL.

**STEP 26: ATTACHING RAKE TRIM TO FRONT OF BUILDING**

FIRST ATTACH RAKE END CAPS INTO EACH END OF 10' PIECE OF SCULPTURED RAKE TRIM  
 WITH (4 EACH END) PRE PAINTED #8 SCREWS. PLACE RAKE TRIM (WITH END CAPS) ON BUILDING  
 AND FASTEN AS SHOWN (SEE FIG. 30).

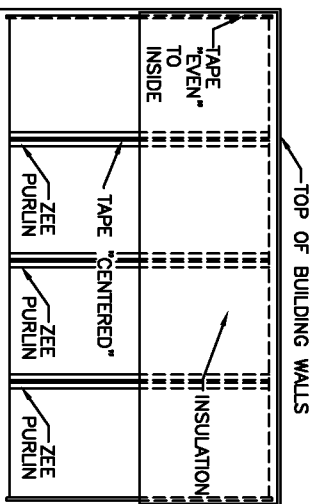


FIGURE 26A

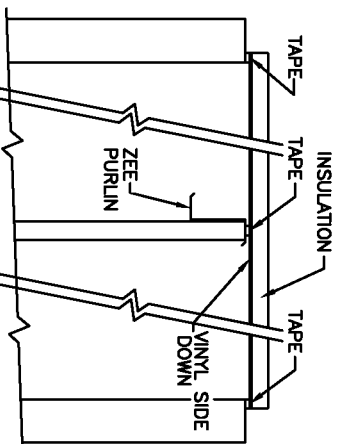


FIGURE 26B

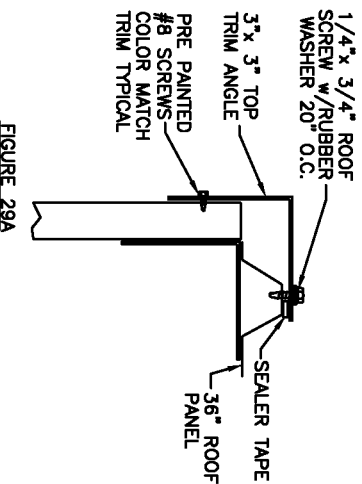


FIGURE 29A

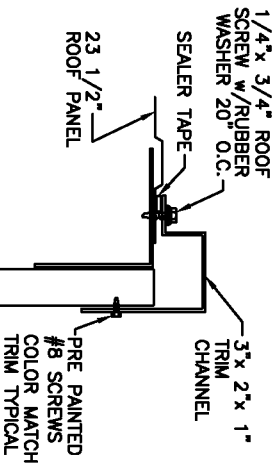


FIGURE 29B

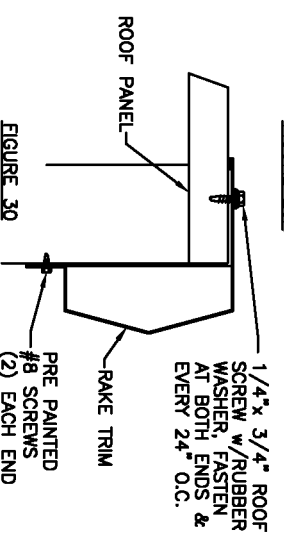


FIGURE 30



FIGURE 28

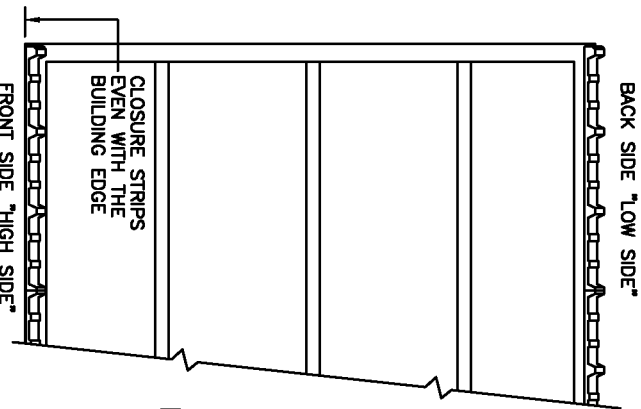


FIGURE 27A

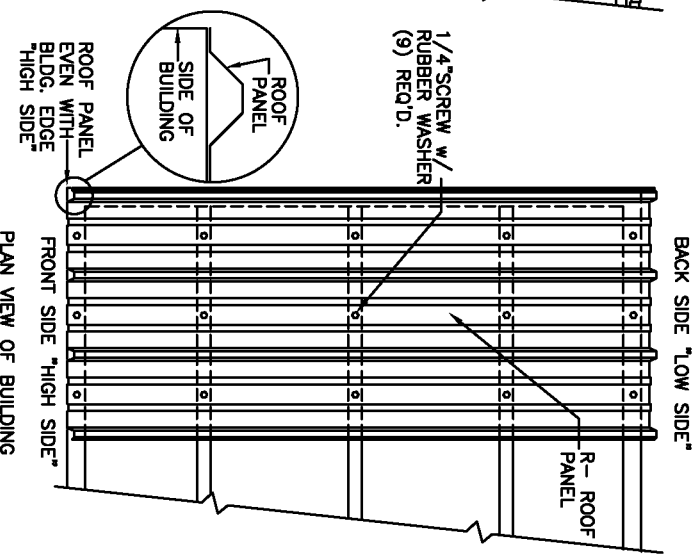


FIGURE 27B

**STEP 31: BUILDING THE DOWN INSTALLATION**  
 SCREW A GROUND ANCHOR INTO THE EARTH AT EACH BUILDING CORNER (SEE FIG. 37). ANCHORS SHOULD BE LOCATED 4" FROM FACE OF PIER TO BE ANCHORED. THE ANCHORS CAN BE LOCATED ON EITHER FRONT OR SIDE OF CORNER PIERS.

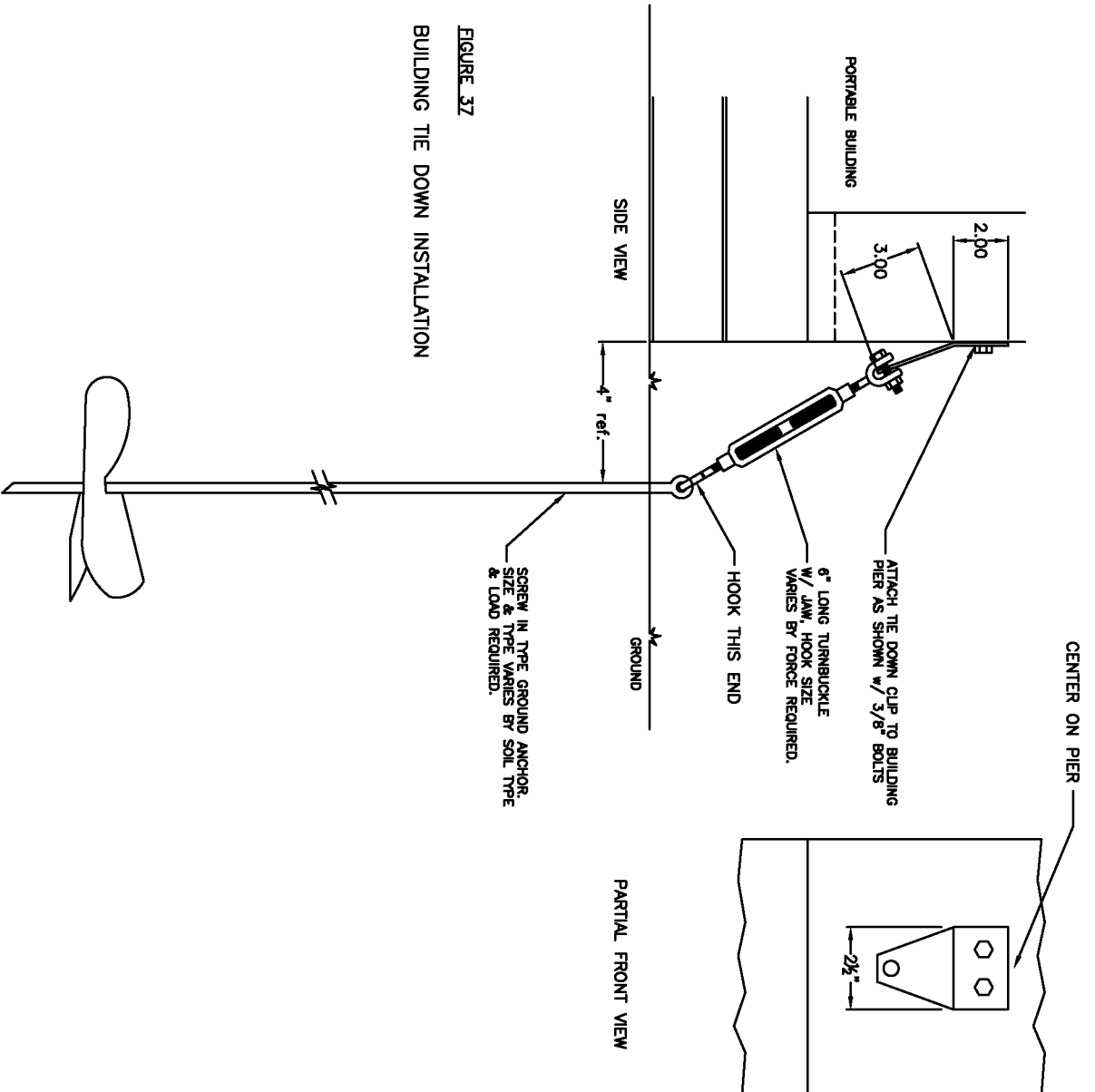
**STEP 32**  
 OPEN TURNBUCKLE APPROXIMATELY HALF WAY. HOOK TURNBUCKLE INTO GROUND SCREW, AND ATTACH OTHER END INTO THE DOWN CLIP. POSITION THE DOWN CLIP ONTO SIDE OF PIER IN CENTER. MARK LOCATION FOR THE (2) MOUNTING HOLES. DRILL (2) 3/8" DIAMETER HOLES IN EACH PIER, THEN ATTACH WITH BOLTS SUPPLIED.

**STEP 33**  
 ADJUST ALL TURNBUCKLES UNTIL TIGHT.

UP LIFT FORCES ON BUILDING TO BE RESISTED WITH THE DOWNS

WIND VELOCITY	WIND PRESSURE	TOTAL OVERTURN MOMENT	UP LIFT FORCE*
90MPH	14.8psf	14,800 ft.-lbs	740Lbs
100MPH	18.3psf	18,300 ft.-lbs	915Lbs
110MPH	22.2psf	22,200 ft.-lbs	1110Lbs
120MPH	26.4psf	26,400 ft.-lbs	1320Lbs
130MPH	31.0psf	31,000 ft.-lbs	1550Lbs
140MPH	35.9psf	35,900 ft.-lbs	1795Lbs
150MPH	41.2psf	41,200 ft.-lbs	2060Lbs

\* FORCE SHOWN IS BASED ON USING 4 THE DOWNS, ONE AT EACH CORNER.



**FIGURE 37**  
 BUILDING THE DOWN INSTALLATION

SCREW IN TYPE GROUND ANCHOR. SIZE & TYPE VARIES BY SOIL TYPE & LOAD REQUIRED.

6" LONG TURNBUCKLE w/ JAW. HOOK SIZE VARIES BY FORCE REQUIRED.

CENTER ON PIER

PARTIAL FRONT VIEW