

INSIDE TROUGH DIMENSION IS 5" (FIFTY-ONE INCHES)  
YOU MUST USE 5" HERE TO MAKE THE  
TROUGH GEOMETRY WORK!!

CUT 12 FOOT WIDE LINER IN HALF TO MAKE 6 FOOT  
WIDE LINER, OR USE 6-FOOT WIDE LINER, EXACTLY!!!  
IT MAKES THIS RADIUS AT BOTTOM OF TROUGH = 0K!

1/4" X 2-1/2" CARRIAGE BOLT  
THROUGH 2X4 INTO FORM STAKE  
ONLY ON 16-FOOT TROUGHS!!!

YOU MUST USE 12" TROUGH HEIGHT HERE  
TO MAKE THE TROUGH GEOMETRY WORK!!

USE UNTREATED 1X2 NAILER STRIP HERE,  
BECAUSE TREATED WOOD CAN BLEED  
TOXIC CHEMICALS INTO THE WATER.

LINER GOES ALL THE WAY TO THE EDGE  
OF THE 2X4 ON BOTH SIDES OF THE TROUGH

INSTALL (3) #10 BY  
3" LONG WOOD SCREWS  
AT CORNERS OF 2X4S

TREATED 2X4

12" HIGH PIECE OF 1/4" TREATED  
ACX PLYWD SCREWED TO THE 2X4 WITH  
GALVANIZED #8 X 1-1/4" LONG FLAT HEAD  
WOOD SCREWS ON SIDES AND ENDS

ONE LAYER OF NON-WOVEN COMMERCIAL GRADE WEED MAT OR GEOTEXTILE PLUS ONE  
LAYER OF BLACK WOVEN WEED MAT, BEFORE INSTALLING HYDROPONICS TROUGHS  
INCLUDING AREAS BETWEEN TROUGHS AND 3' TO OUTSIDE OF OUTSIDE TROUGHS

5/8" BY 2-FOOT FORM STAKES IN THE MIDDLE OF  
16-FOOT TROUGH SIDES. ONLY INSTALL FORM STAKES  
IN MIDDLE OF 16-FOOT TROUGHS IF YOU BUILD THEM  
THAT LONG. THE SHORTER 8-FOOT TROUGHS DO NOT NEED THIS!!

# CUT-AWAY VIEW THROUGH THE

## HYDROPONICS TROUGHS

### MICRO SYSTEM 64 + 128

NOT TO SCALE