



## **F510 Steeplechase Water Jump with Valve Option**

### **Installation Guide**

*Read all instructions before installing!!!*

#### **Excavation**

Establish the proper location for the water jump pit based on plans and specs. Excavate a pit which is approximately 18' wide by 16' long, with depth of the pit being 1'0" deep at the shallow (exit) end and 3'3" at the deep (entry) end. Consider local soil conditions to be sure that the pit provides proper sub-surface drainage before installing formwork. Prepare base according to plans and specs, generally 8" or more of granular material.

#### **Assembly**

The wall form is designed to be filled with concrete, in effect, acting as a 'stay-in-place' form. Place the front panel in position inside the pit on support blocks placed under the lowest surface of the formwork. The uppermost edge of the form should be at finished grade less the thickness of the artificial track surface to be installed. Establish the final location of the pit then secure the form into position with rebar stakes driven into the sub grade alongside the form. Position the side and corner panels as per drawing "F500A ASSY" and assemble with stainless steel hardware provided. The mounting flanges on the side wall inner panels are fastened behind the ends of the front wall inner panel. When all five panels are assembled, level the entire form by shimming at the support blocks until the uppermost surface of the structure is at the proper grade, while also squaring up the assembly by measuring corner to

corner (diagonal) dimensions and adjusting until these are equal. Alternately, the five panels can be bolted together first and then placed in position on the leveling blocks inside the pit, then leveled and squared. To properly orient the lower legs of the water jump barrier, there is a ½" thru bolt in the base of each sleeve. Before pouring concrete, verify these bolts are in place. The sleeves extend ½" above the form to be even with the finished track surface at this point. Proper barrier height requires ½" of track surface over the top of the finished pit walls.

The drain valve is located at the bottom of the front panel. Assemble the valve in the wall in accordance with drawing "F50050 Inst". The wood blocking is to be left in place during the concrete pour to prevent concrete from flowing into the valve box. It is recommended that a release agent be applied to the wood blocking as it needs to be removed after the concrete has set. Once the forms are in place, leveled, and secure, bring the drain pipe to the front wall and thread it into the bulkhead fitting. The bulkhead will receive 3" pipe. Once the drainage pipe is in place and secured, check the position and level of the forms to ensure they did not move while attaching the drainage pipe .

#### **Concrete Placement**

Place reinforcing steel or wire mesh in the pit floor. Concrete can now be placed for the entire structure in either one pour or two. Finish concrete inside the wall forms to the top of the double wall structure. If two pours are used, concrete for the floor is then placed and finished as usual. After the concrete has set hard, backfill the entire structure according to plans and specs. Check the width of the structure before concrete sets to insure a proper dimension for the pit covers. Maintain vertical as well as horizontal square ness.

Synthetic track surfacing will be finished to the uppermost surface of the form, covering the entire wall structure, and down the sloped floor of the pit to a distance specified in the track plans.



### F500 Steeplechase

Set the form in the dug out area for the pit. Include panel for support for the floor. Level to finished grade, square by measuring diagonal and insert 12' supports.



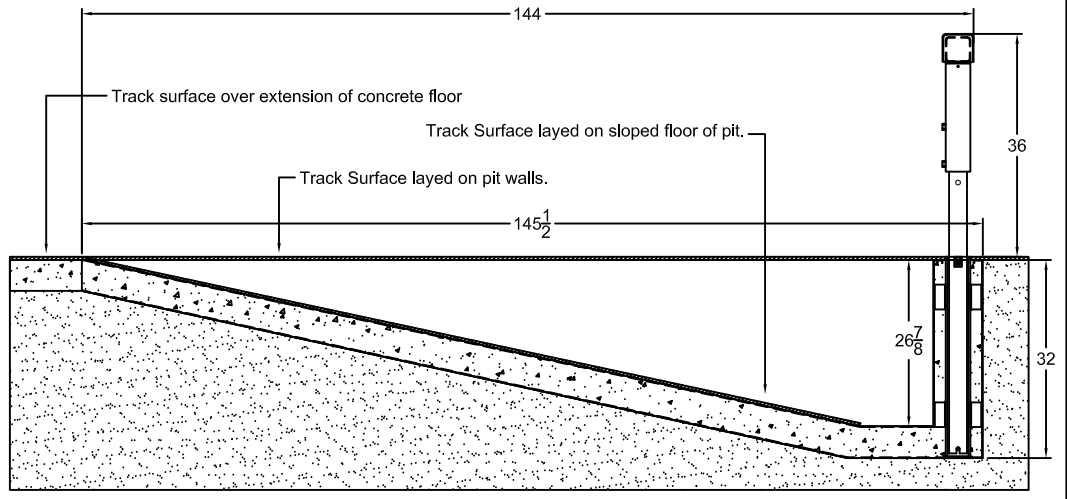
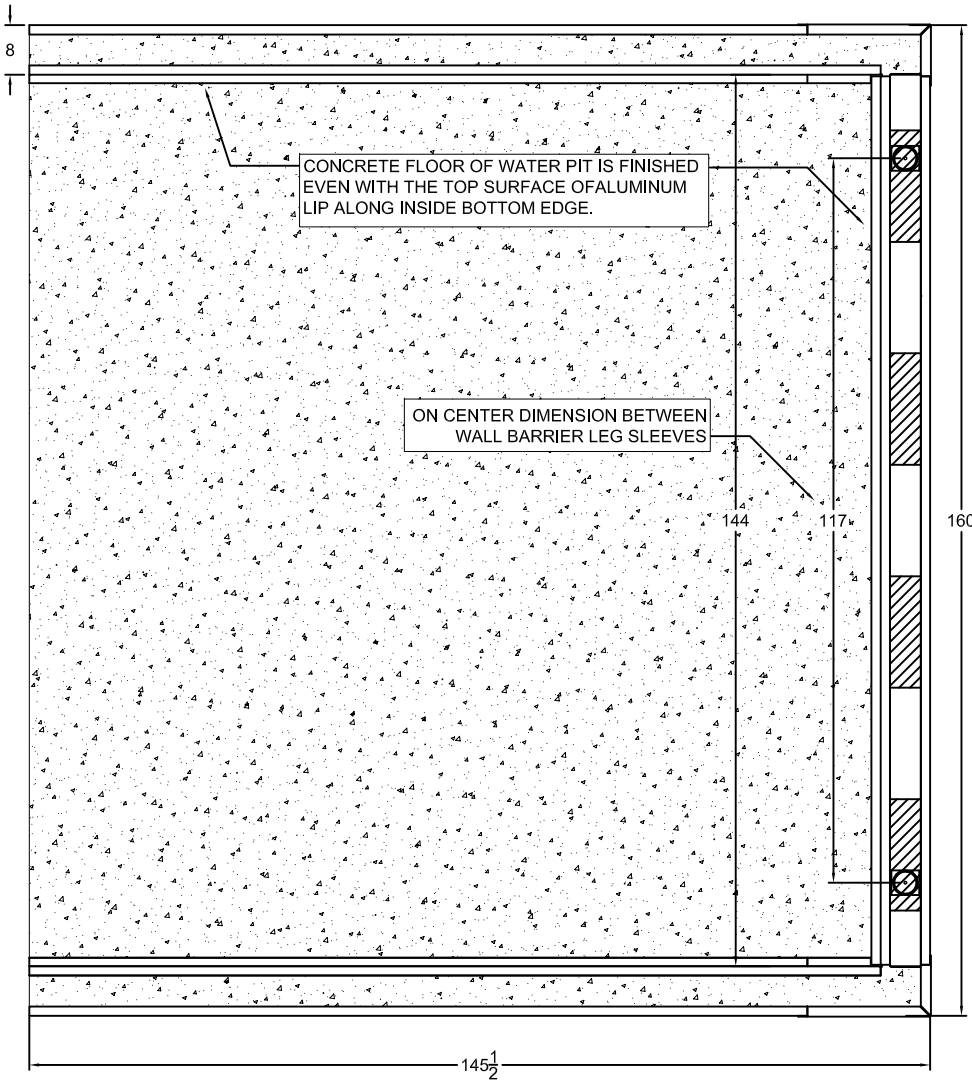
Pour concrete into form and level off. Use ledges on the side walls and front wall to level off the floor.



**F500 Steeplechase Water Jump Form**

Here is a finished look at the water pit. Most of the sides and floor are covered with track surface. Please refer to track specifications and rules for surfaces to be covered with track surface material.



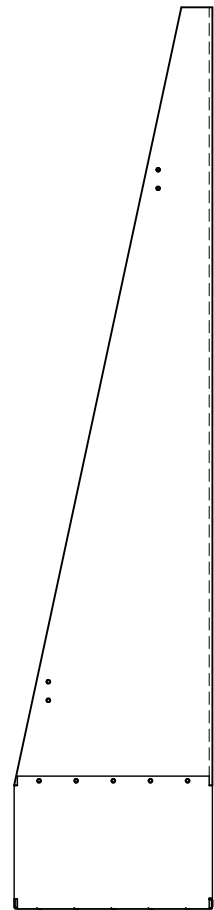


**GILL** PART #: F510  
 ATHLETICS DWG #: F510A Spec  
 Champaign, IL 800-637-3090 Ground Sleeve Water  
 Jump Form

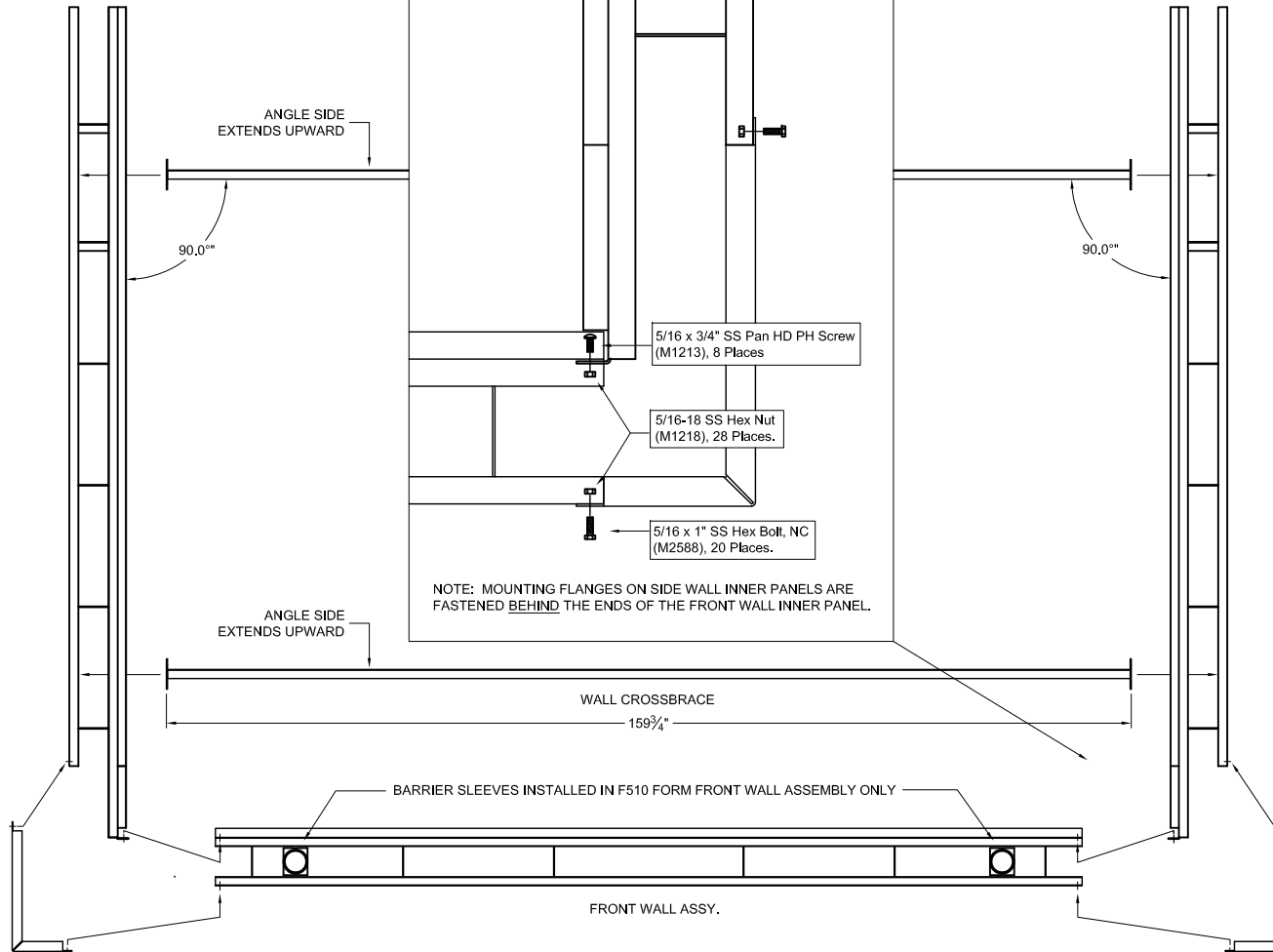
SCALE: (1/20)  
 DRAWN BY: JWD  
 DATE: 03/27/08

LEFT SIDEWALL ASSY.

RIGHT SIDEWALL ASSY.



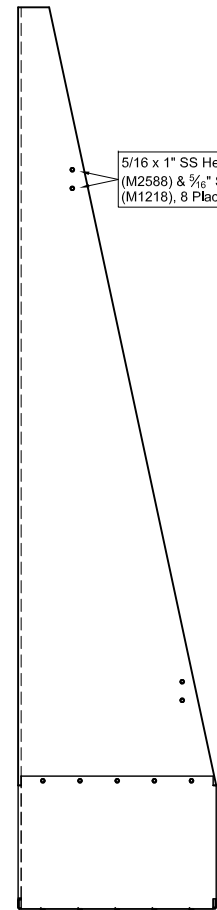
LEFT CORNER PANEL



WALL CROSSBRACE  
159 3/4"

BARRIER SLEEVES INSTALLED IN F510 FORM FRONT WALL ASSEMBLY ONLY

FRONT WALL ASSY.



RIGHT CORNER PANEL

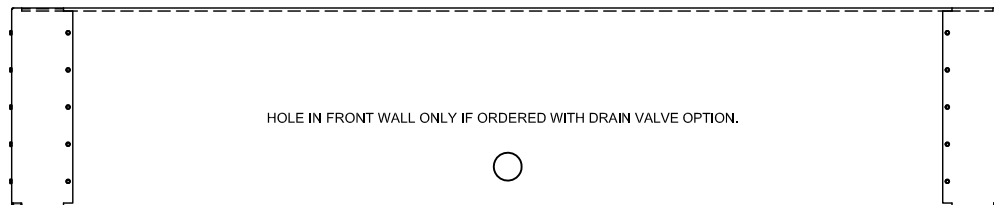
5/16 x 1" SS Hex Bolt, NC (M2588) & 5/16" SS Hex Nut (M1218), 8 Places.

5/16 x 1" SS Hex Bolt, NC (M2588), 20 Places.

5/16 x 3/4" SS Pan HD PH Screw (M1213), 8 Places

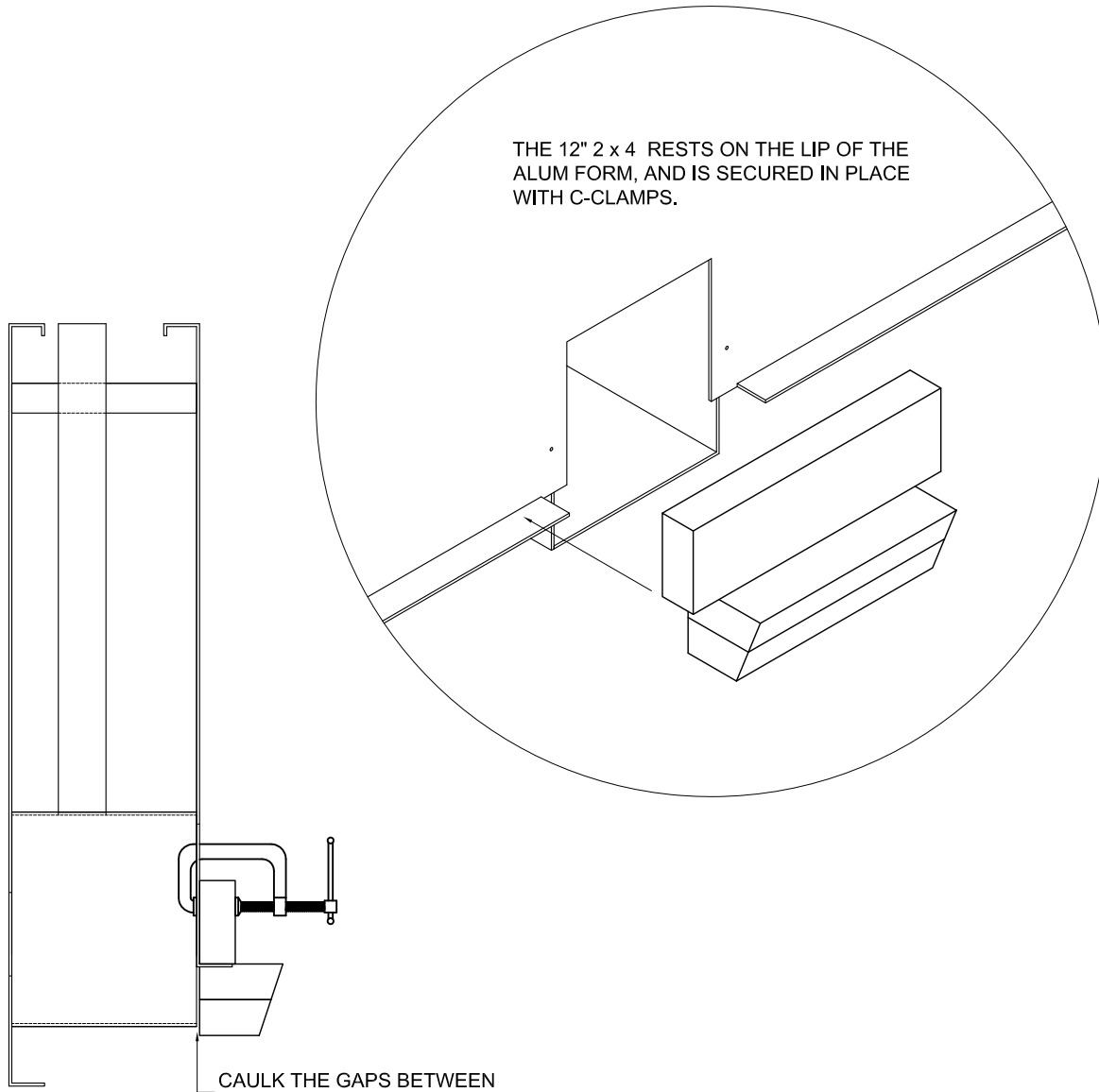
5/16-18 SS Hex Nut (M1218), 28 Places.

NOTE: MOUNTING FLANGES ON SIDE WALL INNER PANELS ARE FASTENED BEHIND THE ENDS OF THE FRONT WALL INNER PANEL.



HOLE IN FRONT WALL ONLY IF ORDERED WITH DRAIN VALVE OPTION.

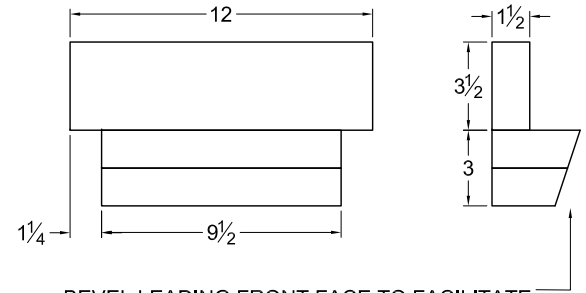
**GILL** PART #: F500  
 ATHLETICS DWG #: F500A ASSY  
 CHAMPAIGN, IL 800-637-3090 F500 WATER JUMP  
 SCALE: (1/20) FORM ASSEMBLY  
 DRAWN BY: JWD  
 DATE: 04/07/08



THE 12" 2 x 4 RESTS ON THE LIP OF THE ALUM FORM, AND IS SECURED IN PLACE WITH C-CLAMPS.

2 x 4's SCREWED TOGETHER TO MAKE REMOVABLE "BOX OUT" FOR THE ACCESS PANEL.

USE #6 x 2" LONG WOOD SCREWS, TO ASSEMBLE 2 x 4'S.



BEVEL LEADING FRONT FACE TO FACILITATE REMOVAL AFTER CONCRETE HAS SET. SIDES MUST REMAIN NEARLY VERTICAL TO PROVIDE GOOD CLEARANCE FOR DRAIN GRATE

CAULK THE GAPS BETWEEN THE WOOD AND VALVE BOX

REVISIONS	

**GILL**  
*ATHLETICS*

CHAMPAIGN, IL 800-637-3090

SCALE: 1/5

DRAWN BY: JWD

DATE: 04/07/08

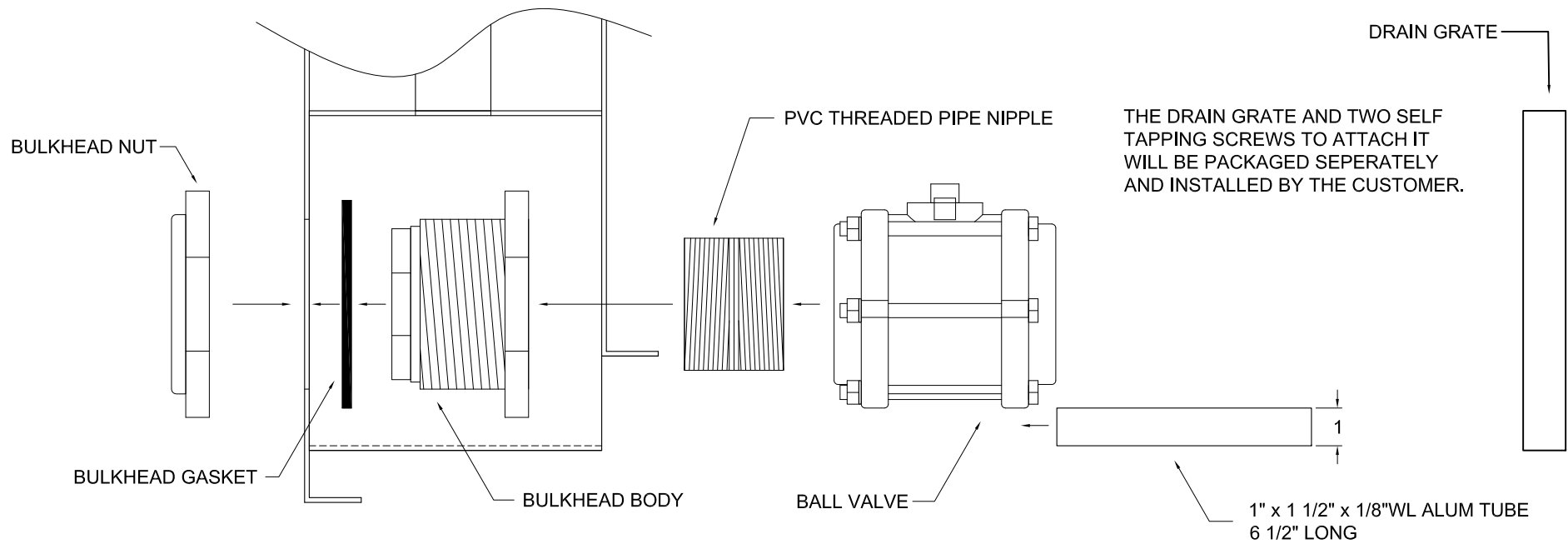
PART #: F50050  
DWG #: F50050 Inst 1

SC WJ FORM W/ VALVE OPTION  
2 x 4 BOX OUT

R & D:

PROD:

PURCH:



THE BULKHEAD IS TO BE INSTALLED IN THE OUTSIDE WALL (F50011-50) THROUGH THE Ø 4 1/2" HOLE WITH THE BODY AND GASKET PORTIONS INSIDE THE VALVE BOX AND THE NUT ON THE OUTSIDE. THE BULKHEAD SHALL BE PROPERLY TIGHTENED.

THREAD THE NIPPLE INTO THE BULKHEAD AND THE VALVE ONTO THE NIPPLE. THE VALVE'S FINAL ORIENTATION SHOULD BE SUCH THAT THE BOLT FACES DIRECTLY UP THE 2" SQUARE ALUM SHAFT. CHECK FOR ALIGNMENT BY LOOKING DOWN THROUGH THE 2" SQ ALUM SHAFT.

SLIDE THE 1" x 1 1/2" ALUM TUBE UNDER THE VALVE.

M740  
POLYPROPYLENE BOLTED-BODY BALL VALVE,  
STANDARD PORT, 3" NPT FEMALE CONNECTION  
9771K36

M746  
DRAIN GRATE, 9" x 9" x 1 1/8", BLACK  
NDS 980

M744  
PVC SCH 80 THREADED PIPE NIPPLE, 3" PIPE  
SIZE x 2-5/8" LENGTH, FULLY THREADED  
4882K19

M985  
1" x 1 1/2" x 1/8"WL ALUM TUBE, 6 3/4" LONG

M745  
BULKHEAD FITTING, PVC, FEMALE  
NPT x FEMALE NPT, 3" PIPE SIZE  
36895K127

M22271  
410 SS FL HD PHILLIPS SELF DRILLING SCREW  
8-18 THREAD, 1 1/4" LENGTH, DRILL POINT #2  
94195A150

**GILL**  
*ATHLETICS*  
CHAMPAIGN, IL 800-637-3090

PART #: F50050  
DWG #: F50050 Inst 2  
SC WJ FORM W/ VALVE OPTION  
VALAVE INSTALLATION

SCALE: 1/3  
DRAWN BY: CEB  
DATE: 09/13/05

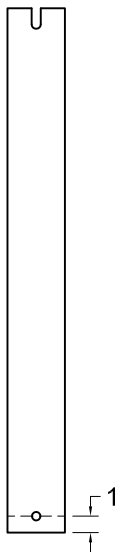




www.gillathletics.com  
800-637-3090

## STEEPLE CHASE WATER JUMP PVC GROUND SLEEVE BUSHING

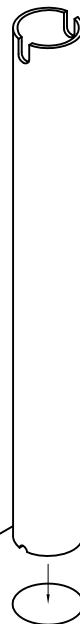
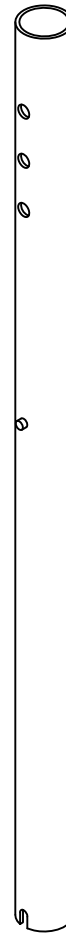
### Instructions for installing Steeplechase lower legs into Water Jump Form ground sleeves.



1. Remove the bolt from the bottom of the PVC ground sleeves provided with the Steeplechase Barrier. Cut an inch off the bottom of the PVC ground sleeves .

Steeple Chase Barrier lower leg

PVC ground sleeve bushing



2. Drop the PVC ground sleeve bushing into the opening of the water jump form ground sleeve. Rotate the bushing so that the slots are parallel with the edge of the water jump.

3. Slowly slide the steeple chase barrier lower leg into the PVC ground sleeve bushing. The slot at the bottom of the leg should index on the bolt at the bottom of the water jump form ground sleeve, and the pin in the leg should nest in the slots in the PVC bushing.

Water jump form  
ground sleeve opening