



F500 Steeplechase Waterjump 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. Barrier mounting plate anchor studs are cast into the front concrete wall. Refer to drawing "F500A" and verify centerline spacing is 117".

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.

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. Verify form walls are square and check the width of the structure at the top before and during the concrete pour to insure a proper dimension for the pit covers. Pit inside width must be maintained at 12 feet. Finish concrete inside the wall forms to the top of the double wall structure. When pouring concrete ensure that no concrete gets into the valve box through either the opening at the bottom of the wall or through the 2" sq aluminum tube that runs from the top of the rear wall down to the valve box. If two pours are used, concrete for the floor is then placed and finished as usual. After the concrete has set, the wood blocking at the bottom of the front wall should be removed. Install the drain grate over the valve box opening using two SS self-drilling screws, 1 ¼" long (provided).

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. The stainless steel surface mounted beam anchor plates must be installed on top of the front wall before the track surface is applied.



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.



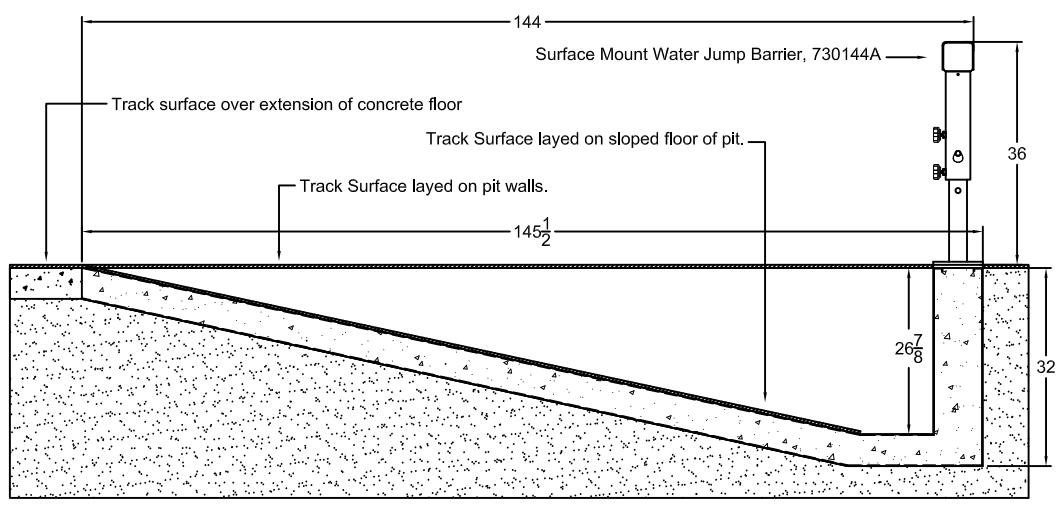
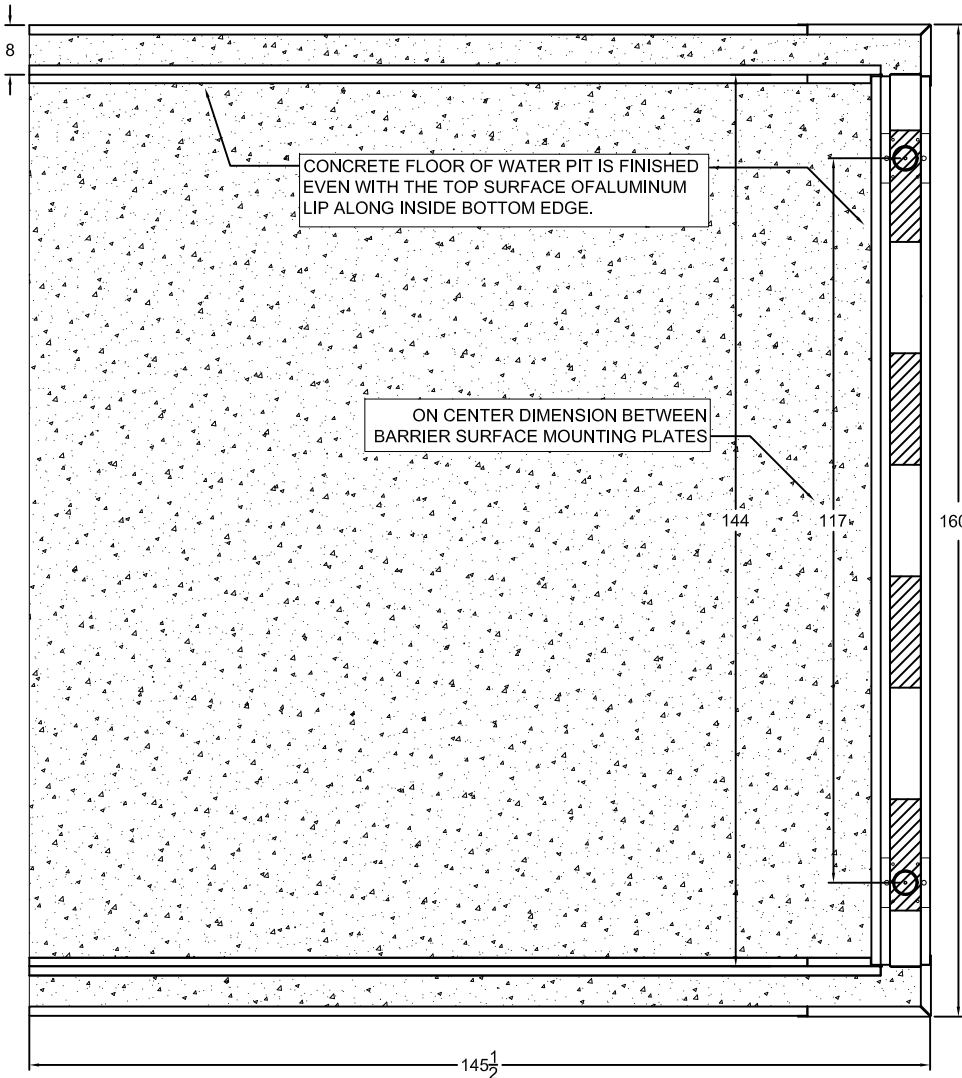
Pour concrete into form and level off. Use ledges on the side walls and front wall to level off the floor.



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 #: F500
 ATHLETICS DWG #: F500A Spec
 Champaign, IL 800-637-3090 Surface Mount Beam
 Water Jump Form

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

LEFT SIDEWALL ASSY.

RIGHT SIDEWALL ASSY.

ANGLE SIDE
EXTENDS UPWARD

90.0°

90.0°

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

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

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

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

ANGLE SIDE
EXTENDS UPWARD

WALL CROSSBRACE
159 3/4"

BARRIER SURFACE MOUNTING PLATES SHOWN FOR REFERENCE ONLY
MOUNTING PLATES ARE SUPPLIED WITH THE 731144A WJ BARRIER

FRONT WALL ASSY.

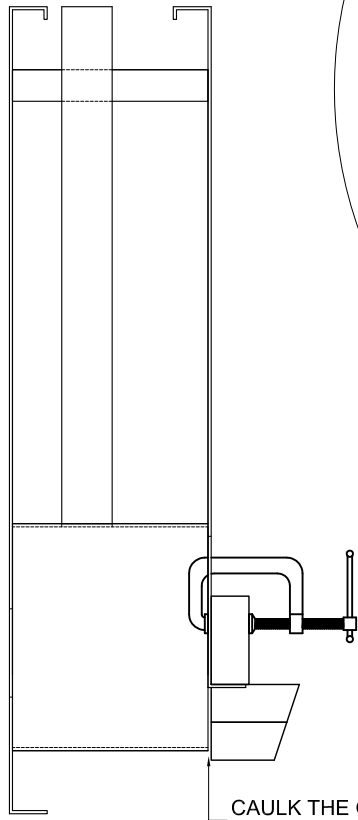
LEFT CORNER PANEL

RIGHT CORNER PANEL

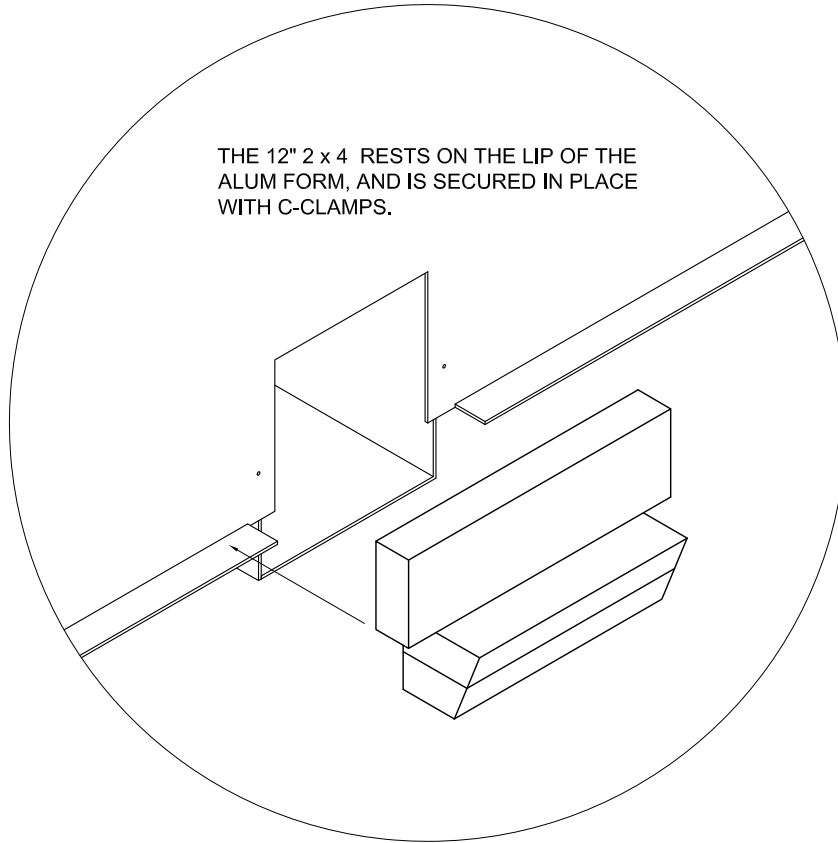
5/16 x 1" SS Hex Bolt, NC
(M2588) & 5/16" SS Hex Nut
(M1218), 8 Places.

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
FORM ASSEMBLY
SCALE: (1/20)
DRAWN BY: JWD
DATE: 04/07/08



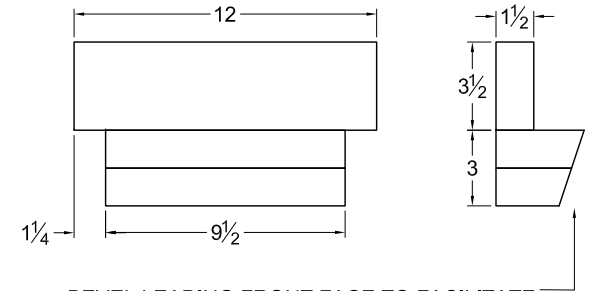
CAULK THE GAPS BETWEEN THE WOOD AND VALVE BOX



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

REVISIONS	

GILL
ATHLETICS

CHAMPAIGN, IL 800-637-3090

SCALE: 1/5

DRAWN BY: JWD

DATE: 04/07/08

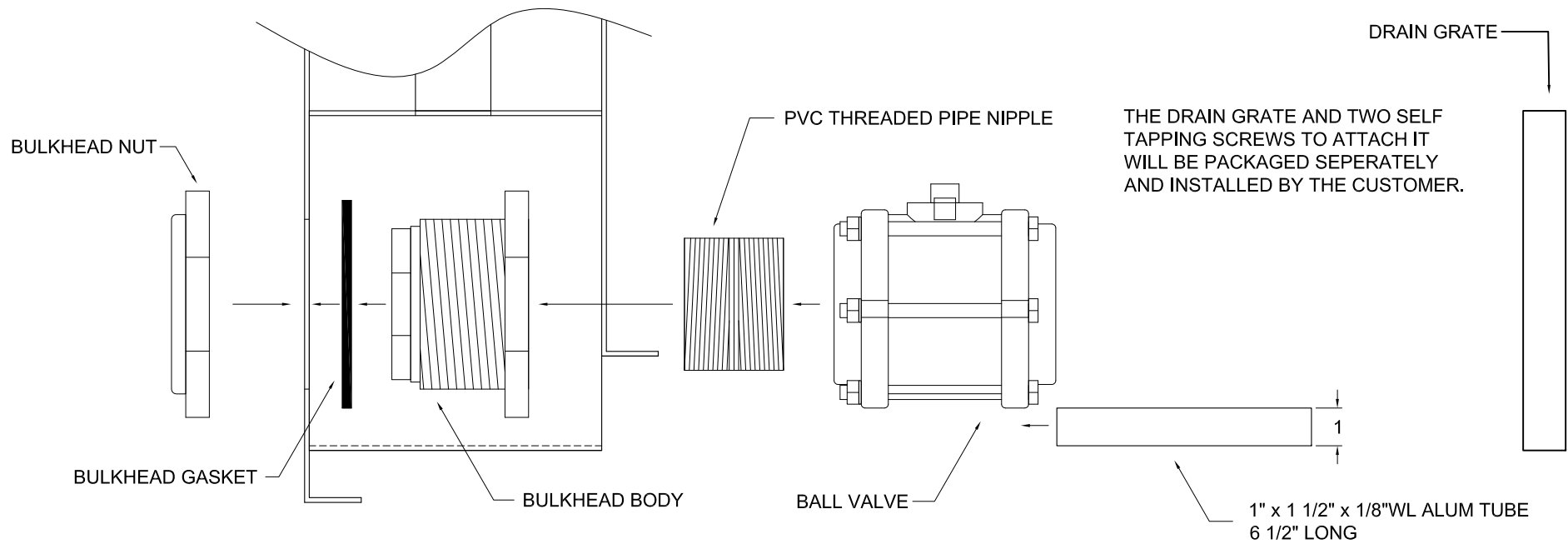
PART #: F50050
DWG #: F50050 Inst 1

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

R & D:

PROD:

PURCH:



THE DRAIN GRATE AND TWO SELF TAPPING SCREWS TO ATTACH IT WILL BE PACKAGED SEPERATELY AND INSTALLED BY THE CUSTOMER.

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

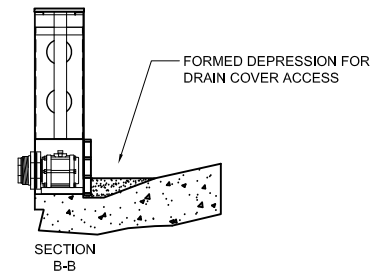
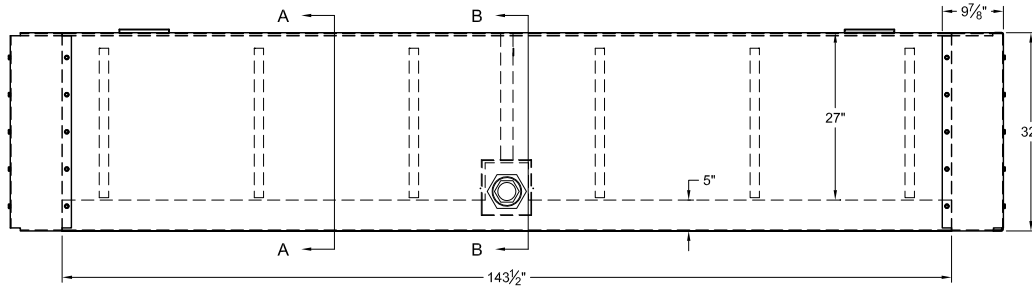
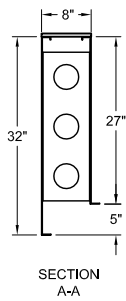
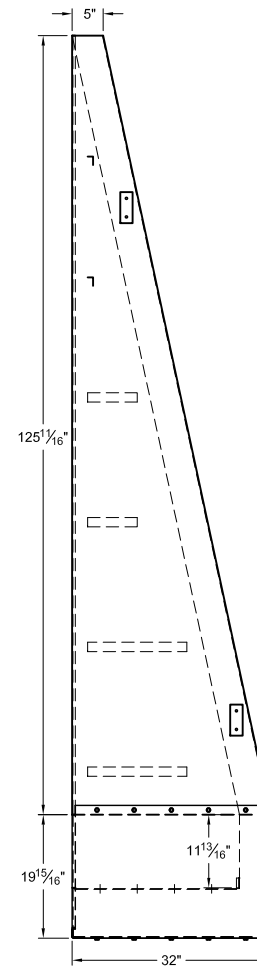
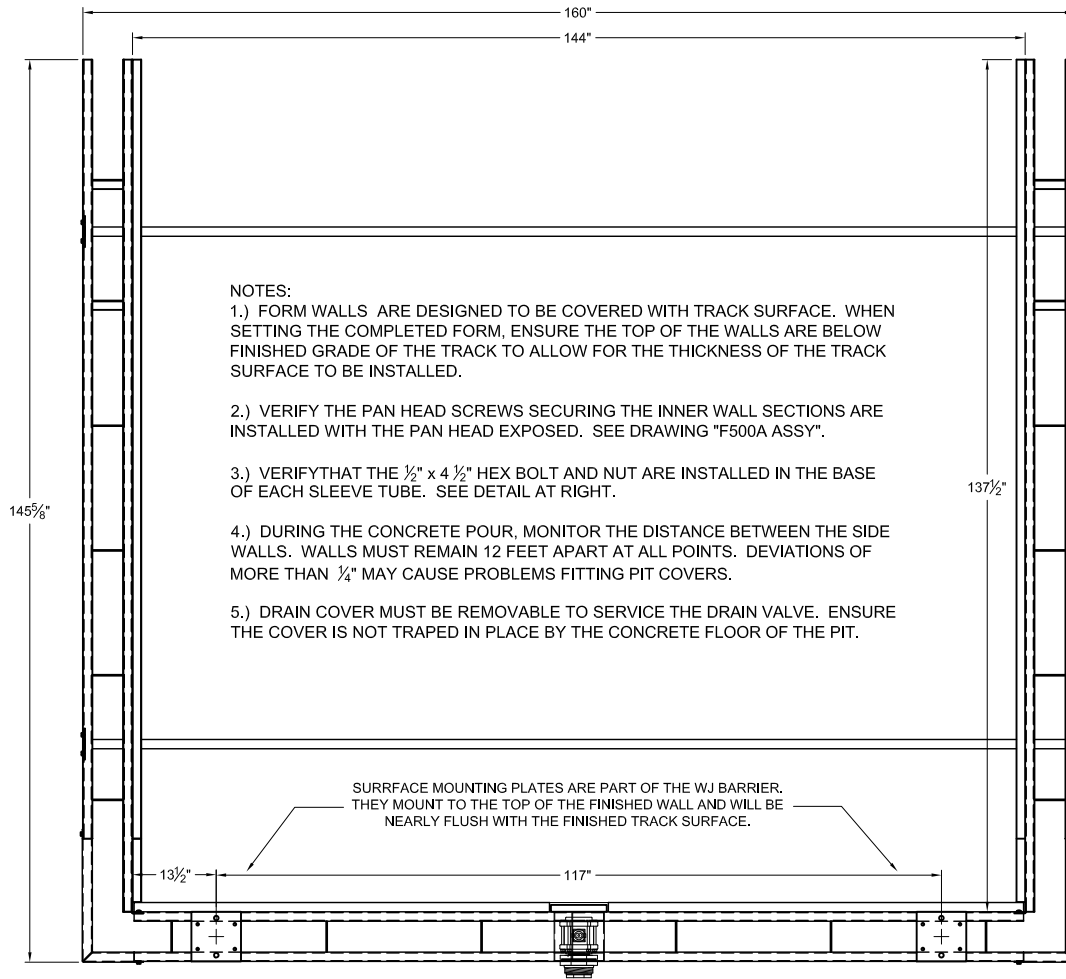
M985
1" x 1 1/2" x 1/8"WL ALUM TUBE, 6 3/4" LONG

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

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



GILL
 ATHLETICS

CHAMPAIGN, IL 800-637-3090

PART #: F500A50
 DWG #: F500A50

F500A50 SURFACE MT FORM
 WITH VALVE OPTION

SCALE: (1/20)
 DRAWN BY: JWD
 DATE: 04/07/08