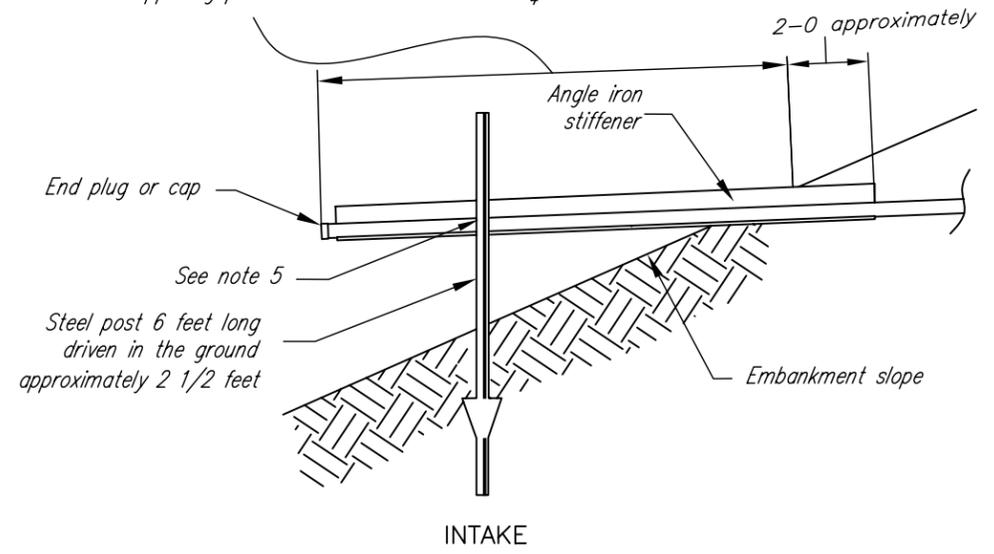


CROSS SECTION OF DAM ALONG ϕ OF SIPHON SUPPLY LINE

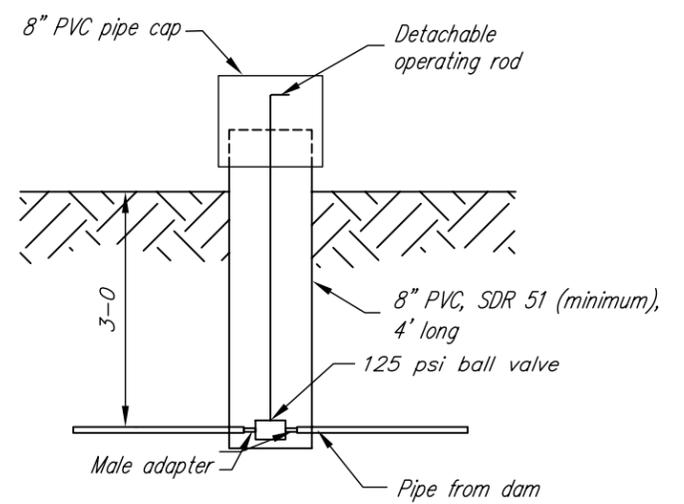
TABLE OF QUANTITIES

Item	Unit	Quantity
Excavation	cubic yards	
Pipe trench backfill	cubic yards	
_____ diameter _____ pipe	linear feet	
Minimum 1" X 1" X 1/4" angle iron	linear feet	10
8" PVC pipe with cap for valve box	each	1
Ball valve with operating rod	each	1
Check valve	each	1
Steel post with anchor plate, 6" long	each	1
8" PVC pipe with cap for filler pipe	each	1

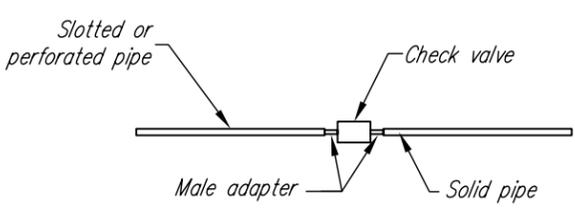
Use slotted pipe or perforate 6 feet of pipe with four rows of $\frac{3}{8}$ -inch diameter holes at 1 $\frac{1}{2}$ inches center to center. Opposing pairs of rows are to be offset $\frac{3}{4}$ inch.



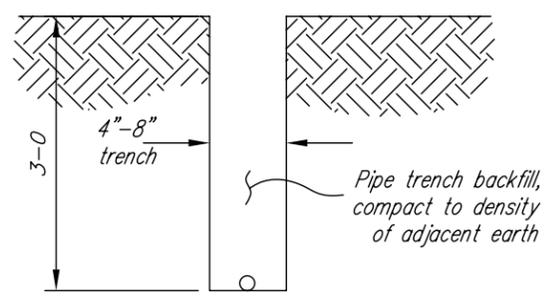
INTAKE



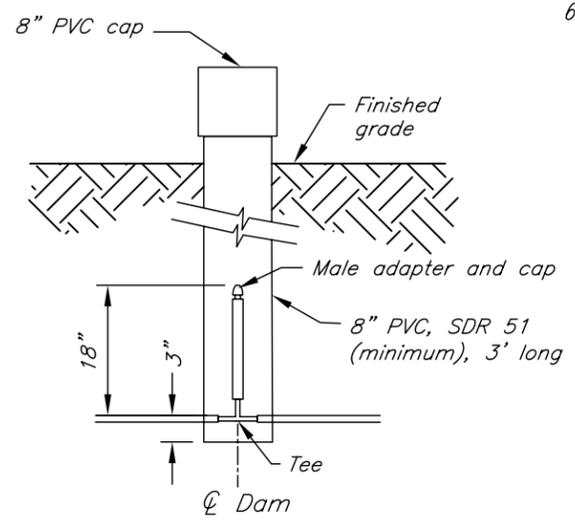
VALVE BOX
* Cut 3" X 3" slots or as necessary to clear pipe



CHECK VALVE



PIPE TRENCH



FILLER PIPE

Notes:

1. Polyethylene pipe shall be PE 3408 in accordance with ASTM D 2239 or ASTM D 3035 with a minimum pressure rating of 125 psi. Polyethylene pipe will be joined by insert fittings or adaptors of nylon plastics (NP) ASTM D 789; polyvinyl chloride (PVC) plastics ASTM D 1784; or brass. Clamps shall be a minimum of 9/16 inch wide with stainless steel screw, band, and buckle. Threaded joints shall be sealed with Teflon tape or equal.
2. PVC pipe shall be PVC 1120 or PVC 1220 in accordance with ASTM D 1785 or ASTM D 2241 with a minimum pressure rating of 160 psi. PVC pipe will be joined using cemented joints and fittings.
3. Test the siphon for leakage before backfilling. Fill the pipe full of water by closing the downstream valve and hold for 24 hours. Repair any leaks--however small.
4. The pipe trench backfill material shall be a fine-grained plastic soil with a maximum rock fragment size less than 2 inches.
5. Secure the slotted or perforated intake pipe to the angle iron stiffener with #9 wire or clamps. Weld, wire, or bolt the angle iron stiffener to the steel post.
6. Prime the siphon by filling the pipe with water as in Note 3 and replacing the cap on the filler pipe so it is airtight. The siphon should run when the downstream valve is opened, providing the water level in the pool is above the intake elevation. The siphon may also be primed by using a vacuum air pump to remove all air from the line. One or more trials may be necessary to get the siphon primed completely. The siphon should be allowed to run freely for at least 24 hours to ensure proper operation.

SIPHON SUPPLY LINE

Date _____
 Designed _____
 Drawn _____
 Checked _____
 Approved _____



File Name _____

Drawing Name _____

Sheet _____ of _____