

Spillway Bottom Width _____ Ft.

- "A" - Vent pipe at 0.1 ft. below elev. "B".
- "B" - Set "B" at normal pool elevation.
- "C" - Should be at least 0.5 ft. lower than "B".
- "D" - Elevation must be at least 0.1 ft. above "F".
- "E" - Pipe with holes for trash guard.

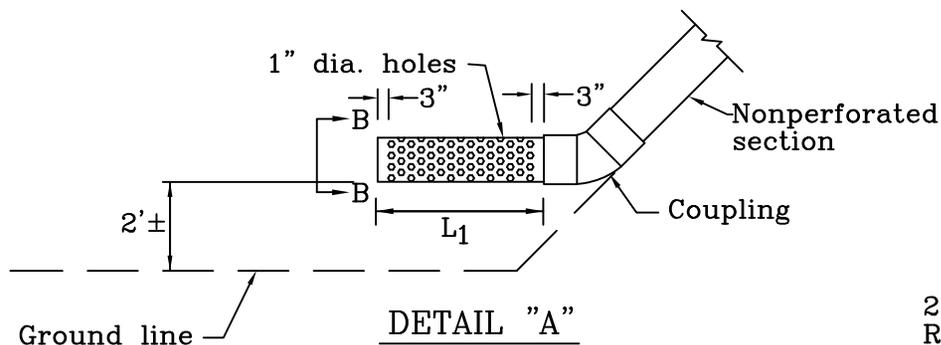
Siphon pipe diameter _____ inches
 Vent pipe diameter _____ inches

$L = L_1 + L_2 + L_3 + L_4 + L_5 =$ _____ Ft. (Design length).
 Design siphon pipe capacity _____ cfs, for H = _____ ft.
 Design emergency spillway capacity _____ cfs.

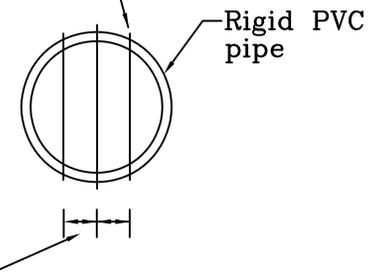
(Survey Notes, Computations, and Design Data Attached)

Field Office _____
 Cooperator _____
 Field No. _____
 Location _____

SIPHON PIPE SPILLWAY DESIGN FOR SIPHON BURIED IN DOWNSTREAM SLOPE	
_____ COUNTY, ALABAMA	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	
Designed _____ Drawn NRCS _____ Traced _____ Checked _____	Date 11/97 Approved by _____ Title _____ Sheet Drawing No. _____ No. 1 of 3 AL-14P-11/97

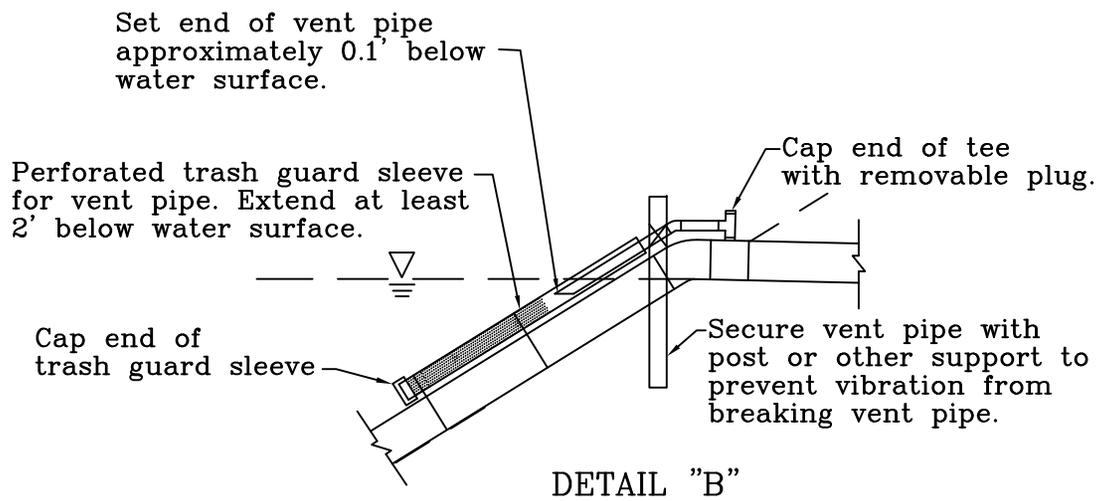


3/16" or 1/4" rods bent on ends or with nuts and washers for securing in pipe. Rods, nuts and washers shall be brass or stainless steel.



2" max. spacing between rods. Rods shall be evenly spaced. No. of rods varies with pipe dia. Drill holes about 1" from end of PVC pipe only large enough for the rods used.

SECTION B-B
(Trash Guard)



Set end of vent pipe approximately 0.1' below water surface.

Perforated trash guard sleeve for vent pipe. Extend at least 2' below water surface.

Cap end of trash guard sleeve

Cap end of tee with removable plug.

Secure vent pipe with post or other support to prevent vibration from breaking vent pipe.

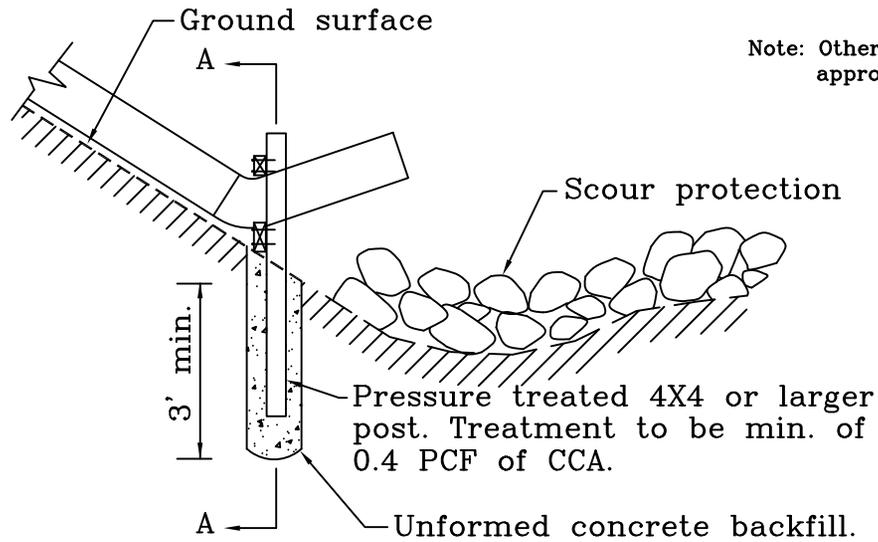
Number of holes and length for siphon inlet.

PIPE DIA.	HOLES	LENGTH (ft.)
4"	33	1.5
6"	73	2.0
8"	128	2.5
10"	201	3.0
12"	289	3.5
14"	363	4.0
16"	480	4.5

NOTE: Table is based on 1" diameter holes spaced at 2" on center and will provide a total opening at least 2 times the pipe cross sectional area.

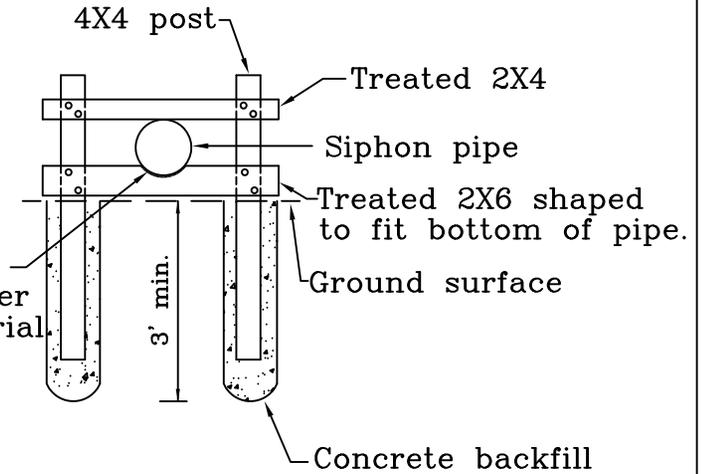
Note: Details this sheet are not to scale.

DETAILS	
SIPHON PIPE SPILLWAY DESIGN	
COUNTY, ALABAMA	
U.S. DEPARTMENT OF AGRICULTURE	
NATURAL RESOURCES CONSERVATION SERVICE	
Designed _____	Date 11/97
Drawn NRCS _____	Approved by _____
Traced _____	Title _____
Checked _____	No 2 of 3 Drawing No. AL-14P-11/97



Note: Other outlet supports may be used as approved by the engineer.

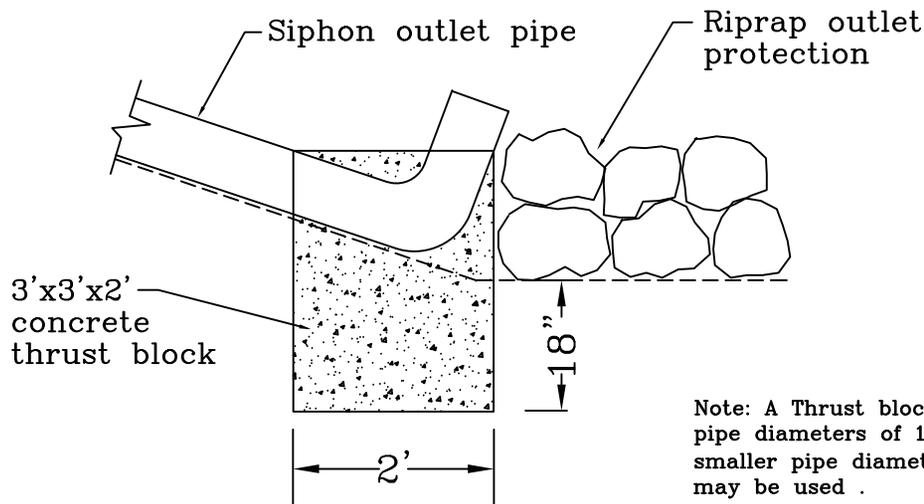
2 layers of roofing felt, mastic or other compressible material between pipe and support.



SECTION A-A

TIMBER BENT DETAIL FOR SIPHON OUTLET

Use for above ground pipes of 4" through 10" diameters



Note: A Thrust block will be required for pipe diameters of 12" or greater. For smaller pipe diameters, a treated timber bent may be used.

SECTION THROUGH THRUST BLOCK
AT OUTLET END OF PVC PIPE

CONSTRUCTION DETAILS			
SIPHON PIPE SPILLWAY			
COUNTY, ALABAMA			
U.S. DEPARTMENT OF AGRICULTURE			
NATURAL RESOURCES CONSERVATION SERVICE			
Designed	NRCS	11/97	Date
Drawn	NRCS	11/97	Approved by
Traced			Title
Checked			Title
			Sheet No 3 of 3
			Drawing No. AL-14P-11/97

Note: Details this sheet are not to scale