

SLOW SAND FILTER PIPING PLAN
SCALE 1" = 10'

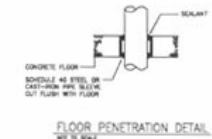


PIPE DIAMETER	4"	10"	14"
NO.	200	400	800
MINIMUM SPACING	3 ft	3 ft	3 ft

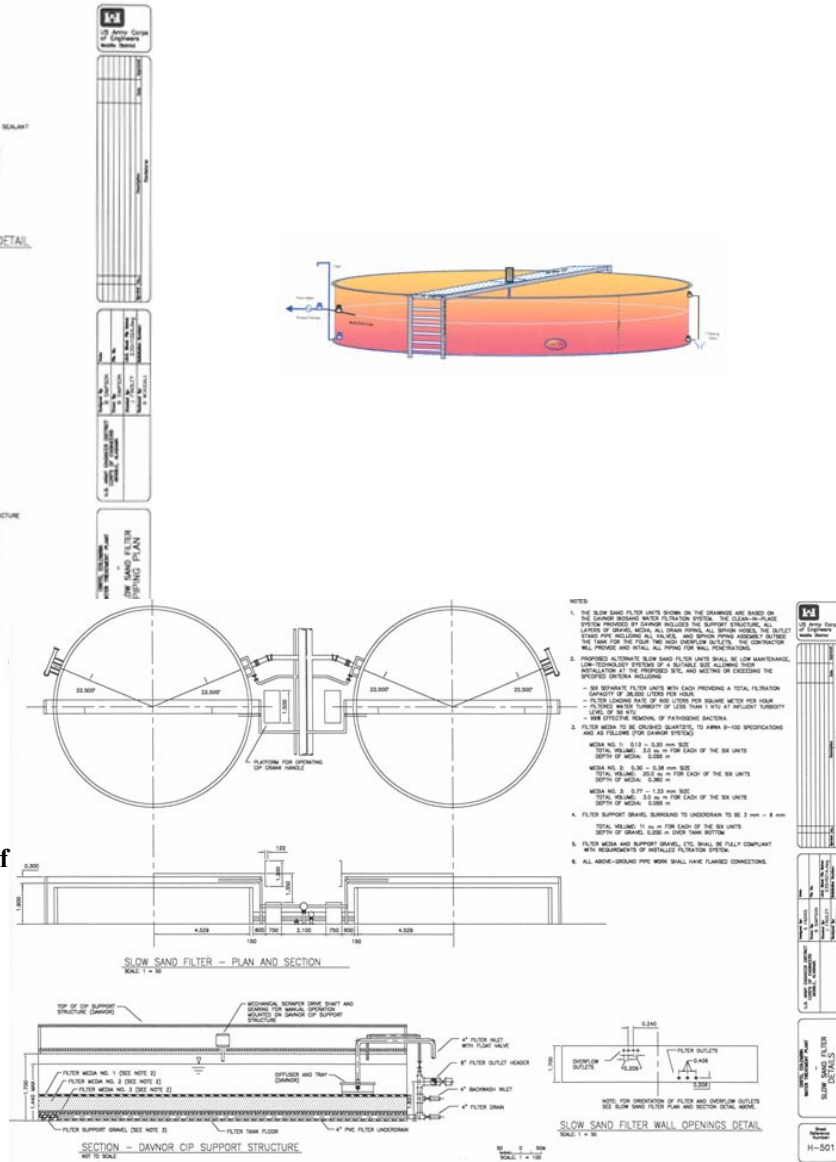
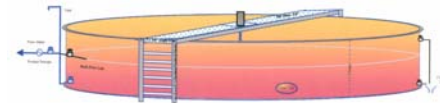
PIPE SUPPORT DETAIL
NOT TO SCALE



SECTION A - A PIPE ARRANGEMENT
NOT TO SCALE



FLOOR PENETRATION DETAIL
NOT TO SCALE



- NOTES
1. THE SLOW SAND FILTER UNITS SHOWN ON THE DRAWINGS ARE BASED ON THE CURRENT BROWNE CORNE FILTERATION SYSTEM. THE CLEANING BRUSHES, LAYERS OF GRAVEL, METAL, ALL DRAIN PATTERNS, ALL DRAIN HOLES, THE OUTLET HEADS AND SUPPORTS, ALL 4\"/>
 - 2. PROVIDER TO DESIGN SLOW SAND FILTER MEDIA BRUSHING, USE MAINTENANCE, INSTALLATION AT THE PROPOSED PIPING AND SETTING OR EXISTING THE SPECIFIED CRITERIA INCLUDING:
 - SIX BROWNE CORNE FILTER UNITS WITH EACH PROVIDING A TOTAL FILTRATION CAPACITY OF 30000 LITERS PER HOUR
 - FILTER MEDIA BRUSHING AND TESTING AND SQUARE METER PER HOUR
 - FILTER MEDIA PURITY OF LESS THAN 1 WTS AT INFLUENT TURBIDITY LEVEL OF 20 NTU
 - USE PROTECTIVE MEASURES OF PATHOGENIC BACTERIA
 - 3. FILTER MEDIA TO BE GRAVEL, QUARTZITE, TO ASTM 8-100 SPECIFICATIONS AND AS FOLLOWS (FOR SANDS SPECIES):
 - MEDIA NO. 1: 0.15 - 0.30 mm SIEVE
TOTAL VOLUME: 1.0 cu m FOR EACH OF THE SIX UNITS
DEPTH OF MEDIA: 0.05 m
 - MEDIA NO. 2: 0.30 - 0.60 mm SIEVE
TOTAL VOLUME: 2.0 cu m FOR EACH OF THE SIX UNITS
DEPTH OF MEDIA: 0.05 m
 - MEDIA NO. 3: 0.75 - 1.50 mm SIEVE
TOTAL VOLUME: 1.0 cu m FOR EACH OF THE SIX UNITS
DEPTH OF MEDIA: 0.05 m
 - 4. FILTER SUPPORT GRATE, SHOWN TO UNDERSTAND TO BE 2 mm - 8 mm TOTAL VOLUME: 11 cu m FOR EACH OF THE SIX UNITS
DEPTH OF GRATE: 0.05 m AT EACH UNIT BOTTOM
 - 5. FILTER MEDIA AND SUPPORT GRATE, ETC. SHALL BE FULLY COMPLIANT WITH REQUIREMENTS OF APPLICABLE FILTRATION SYSTEM.
 - 6. ALL ABOVE-GROUND PIPE WORK SHALL HAVE FLANGED CONNECTIONS.

NO.	DESCRIPTION	QTY	UNIT
1	4\"/>		

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1	4\"/>		

Orito, Colombia

- USAID project.
- Dawnor BioSand filters specified by United States Army Core of Engineers.
- Design prepared by United States Army Core of Engineers.
- To be constructed by Colombian contractor.



Making a world of difference to our water.