

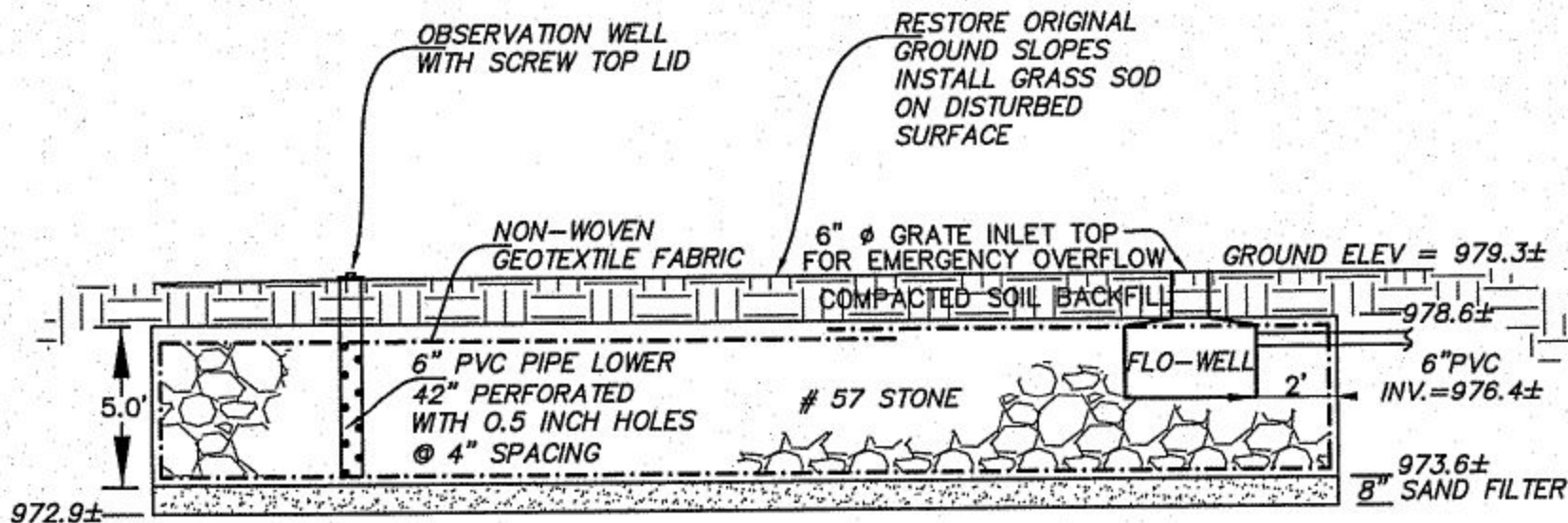
One way of meeting Water Quality requirements of Brookhaven code sec. 14-109

WATER QUALITY VOLUME - GRAVEL PIT	
Basins: HOUSE, GARAGE, PORCHES	5256.2 sq.ft.
Compensation: STEPS, DRIVEWAY, R-WALL, POOL AREA	6435.4 sq.ft.
TOTAL IMPERVIOUS FOR WQ DESIGN	11692 sq.ft.
Rainfall to be treated =	1.2 in.
Volume Required =	1169.2 cu.ft.
Length of Gravel Pit =	25.0 ft.
Width of Gravel Pit =	24.0 ft.
Depth of Gravel in Pit =	5.0 ft.
Volume in Gravel w/ 40% Voids =	1200.0 cu.ft.
Number of Flo-Wells in Pit =	1
Additional Volume from Flo-Wells =	3.8 cu.ft.
Volume Provided =	1203.8 > 1169.2 Required

$V_{req} = 11692 \text{ sf} \times 0.1 \text{ ft}$

$1.2" = 0.1 \text{ ft}$

$V = L \times W \times H \times 0.4$



WATER QUALITY SYSTEM - CROSS SECTION

NTS