

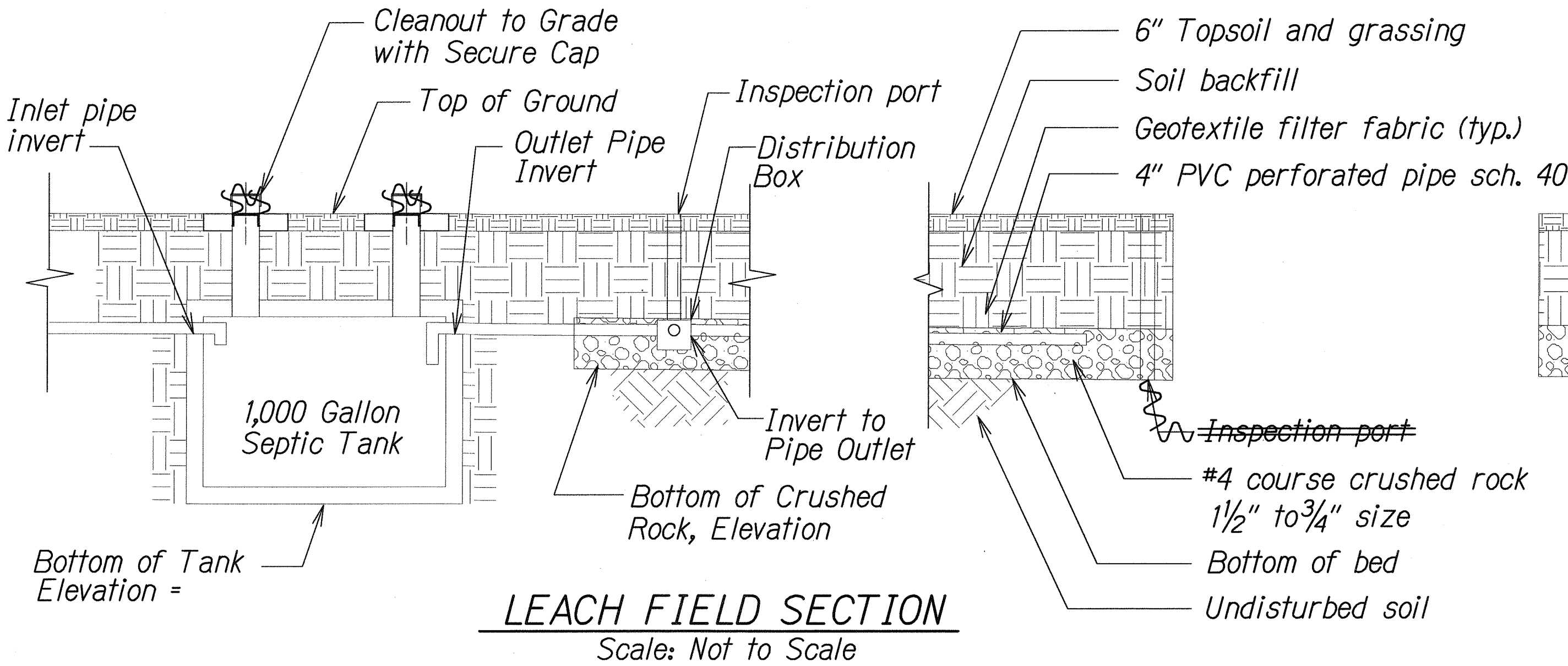
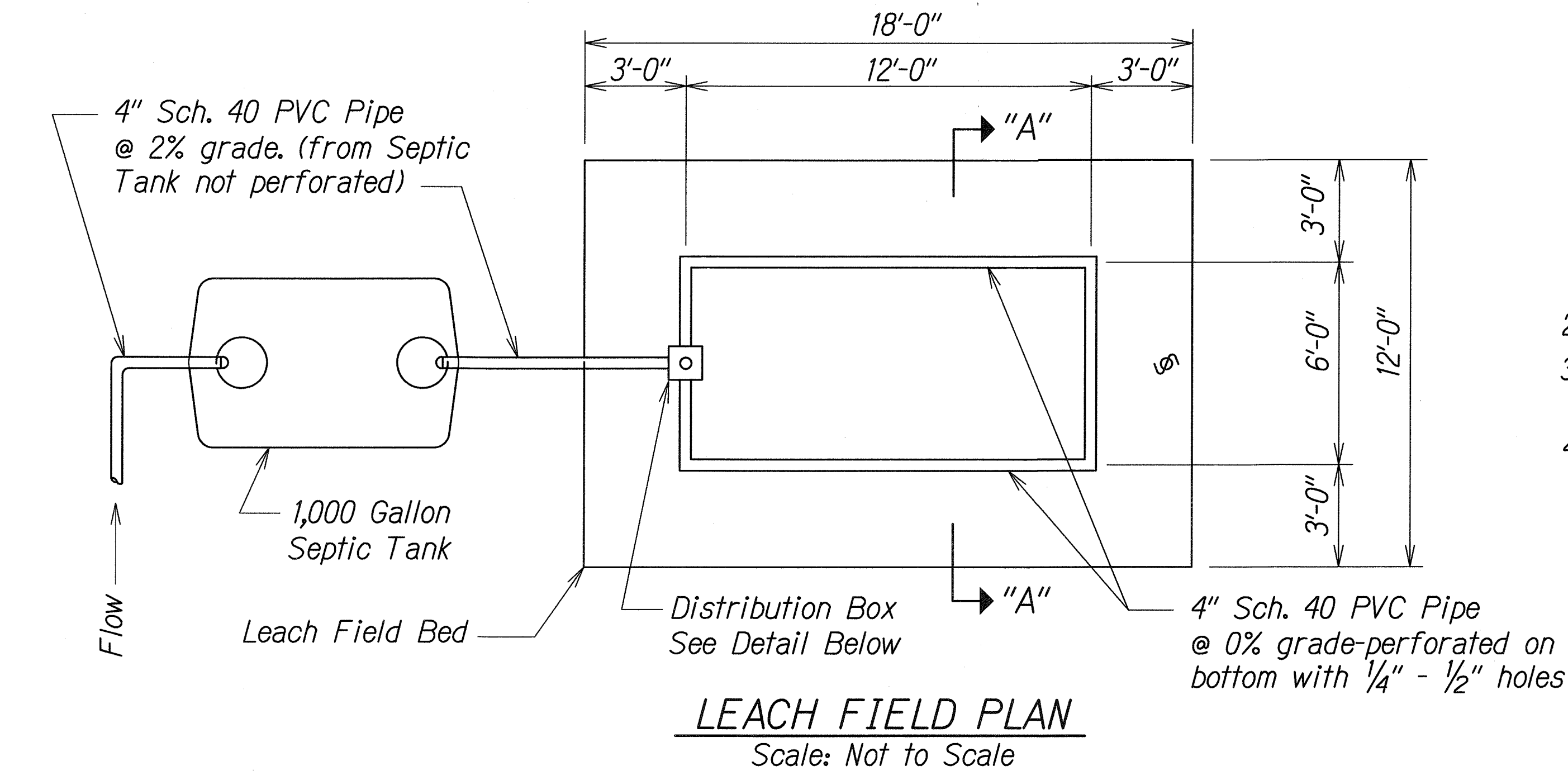
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-06M	2006	10	12

SEPTIC TANK AND DISTRIBUTION NOTES:

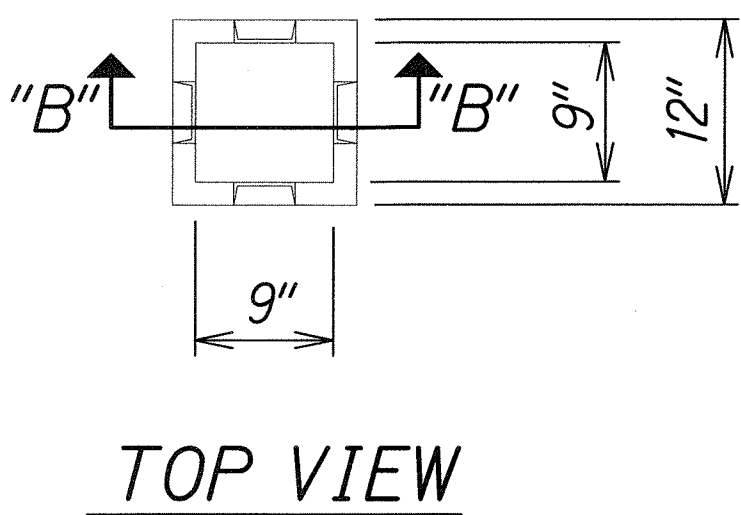
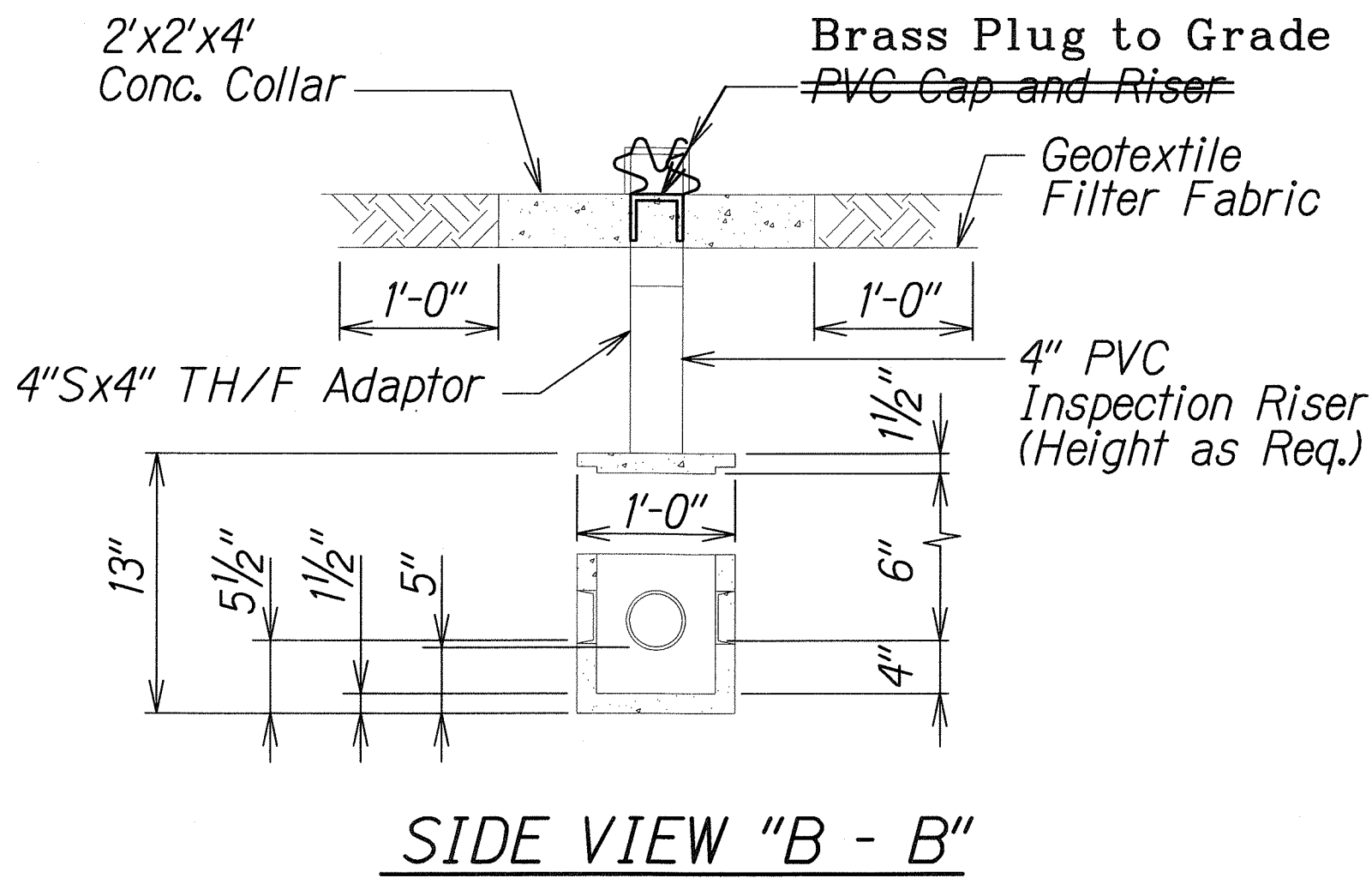
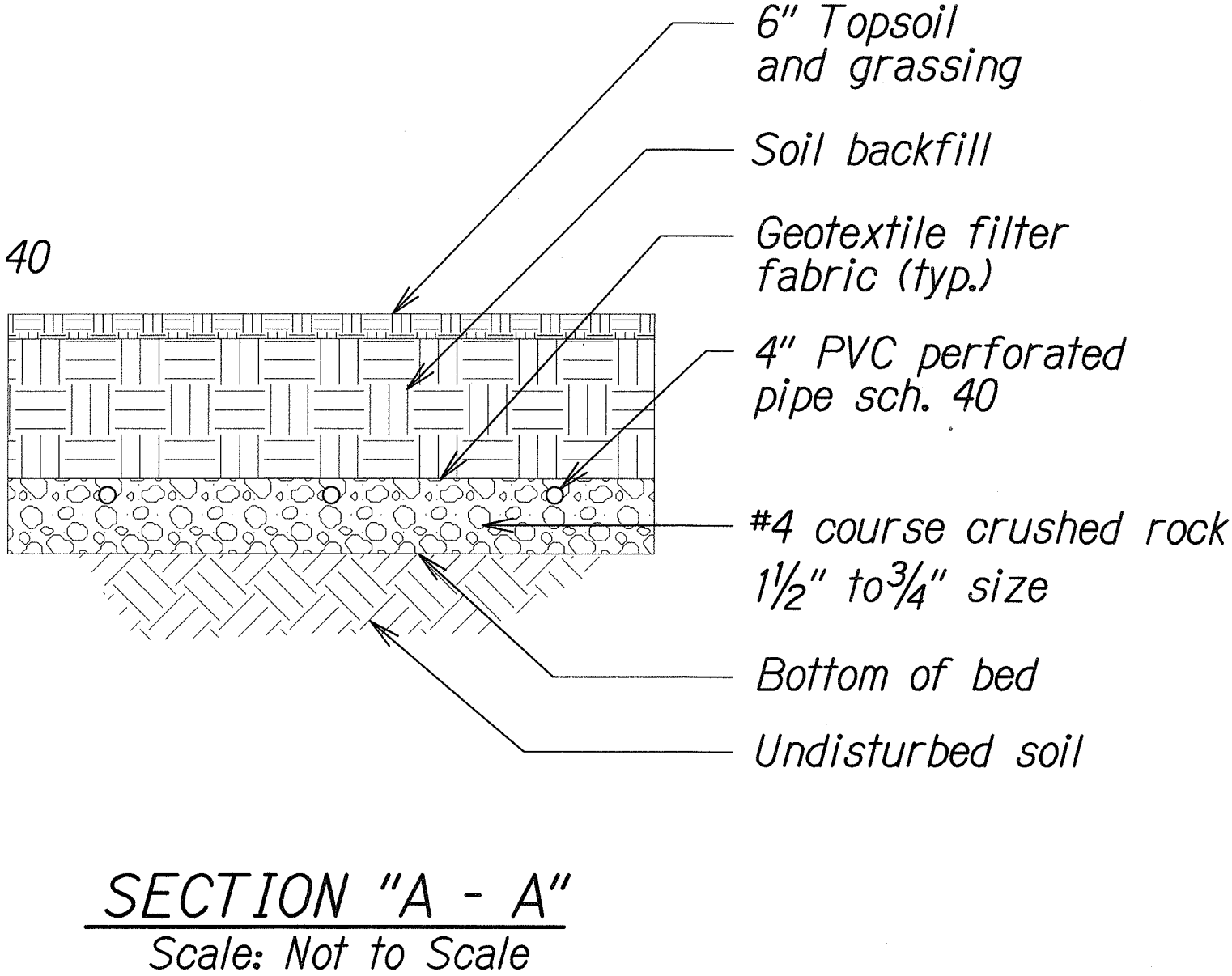
1. All concrete shall develop a minimum compressive strength of 3000 psi at 28 days.
2. Cement to be portland cement conforming to astm c 150.
3. Reinforcing steel shall be intermediate grade, deformed conforming to astm a-616 grade 40.
4. Reinforcing bars shall be in long lengths and shall be lapped a minimum of 15 inches, or 40 bar diameters.
5. Interior area of the tanks shall be coated with an approved waterproof bituminous coating and shall be applied per the manufacturer's recommendation.
6. Tanks shall bear on undisturbed soil a minimum of 12" below original grade on a solid bed and to be installed level. Two 2x6 redwood grade boards shall be placed below the tanks side walls along the long dimension.
7. If tank hole is over excavated or has rocky unlevel bottom, 2" sand-pea gravel to level bottom is required.
8. Fill tanks with water after it has been set in place and the sides backfilled.
9. All pipes leaving-entering tanks shall be sealed with a non-shrink grout mix.
10. The septic tanks manufacturer shall submit two (2) sets of plans stamped by a structural engineer, licensed in the state of hawaii, for the septic tank drawn to scale to the wastewater branch, department of health, state of hawaii and to the engineer for approval before fabrication. The plans shall show all dimensions, manholes, tees, baffles, compartment walls, and cleanouts. Material specifications, liquid and water volume calculations, installation and maintenance instructions and manufacture's name, address, and phone number shall be submitted under a separate cover.
11. Septic tanks will be located in a vehicular traffic area, therefore must be designed to carry a HS-20 loading.

LEACH FIELD NOTES:

1. The contractor shall notify the Engineer and Department of Health after completion of absorption bed excavation. Gravel, backfill and infiltration units shall not be placed until the soil in the bed area is inspected and necessary testing is completed.
2. Invert elevations indentical for all infiltrator units.
3. All changes shall be approved by the engineer before and during construction.
4. Provide pipe marker at all inspection port and distribution box locations.



LEACH FIELD DETAIL  
Scale: Not to Scale



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SEPTIC TANK & LEACH FIELD**  
**NOTES AND DETAILS**  
HILO BASEYARD  
INSTALLATION OF SEPTIC SYSTEMS  
PROJECT NO. HWY-H-02-06M  
Scale: As Shown  
Date: April, 2006

SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
NOTED BY	DESIGNED BY	
NOTED BY	CHECKED BY	
NOTED BY	CHECKED BY	

"AS-BUILT"