NOTES:
1. Set tank water level lower in elevation than spring water level. Set bottom of U-bend at designated tank water level.
2. Minimum PVC pipe diameter is 1.25"; minimum pipe slope 0.2%.
3. Casing material may be corrugated metal, ¾" welded steel, Schedule 40 PVC pipe, dual wall plastic pipe, or equivalent. Make holes or slits in any un-perforated casing, maximum 1/8" diameter or slot width.
4. Place geotextile at all soil-rock interfaces.

5. Geotextile (non-woven, needle punched) min. criteria:
- Grab Tensile strength (lb) ASTM D 4632_______________ 200
- Elongation at failure (%) ASTM D 4632_______________ 500
- Trapezoidal tear strength (lb) ASTM D 4533_______________ 75
- Puncture strength (lb) ASTM D 6241__________________ 435
- Ultraviolet light (% retained strength) ASTM 4355_______________ min 50
- Apparent opening size (AOS) ASTM D 4751_________

- Permeability sec-1 ASTM D 4401________ min 0.70

6. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.
7. Place a heavy use pattern around and under the water tank. See IL-ENG-873.
8. Seal pipes through the bottom of water tank against leakage. Sealing may be done by embedding tank and pipes in concrete.
9. Install coupler at floor level so overflow pipe can be removed for draining tank.
10. Construct a cutoff wall made of impervious material downstream of collection system. Cutoff may be 2 foot thickness of compacted clay.

CROSS SECTION