

Subsurface Drain - 606 DOCUMENTATION

1. General

Use Form ND-ENG-42 (Tile Data Sheet), field notebooks, and standard profile sheets for layout, design, survey and checking.

2. Design and Layout

- a. Record bench mark; describe and assign elevation.
- b. Record profile of all mains and laterals.
- c. Record centerline and reference hub elevation and cut.
- d. Show length of tile lines by size and kinds of tile.
- e. Show locations and dimensions of manholes.
- f. Show length, kind, and size of outlet pipe.
- g. Record vertical distance between invert of outlet pipe and normal water level in outlet ditch or stream.
- h. Show filter thickness and kind of material.
- i. Show method of covering tile joints.
- j. Make a sketch map showing location of the tile lines.
- k. Record grade of tile lines.
- l. Record log of borings on Form ND-ENG-41 to show ground water, surface soil conditions, pervious and impervious layers, and other soil data pertinent to design and construction.

3. Checking

- a. Record all final quantities.
- b. Record constructed grade of tile.
- c. Technician's signature and date checked.