

SOIL CONSERVATION SERVICE
DESIGN AND CHECK DATA REQUIREMENT

DAM, FLOODWATER RETARDING

Survey Data

Record in Engineering Field Book or other appropriate engineering paper.

1. Topographic map of structure site and reservoir area.
2. Profile along centerline of structure.
3. Profile along centerline of principal spillway.
4. Profile along centerline of emergency spillway.
5. Other survey data to describe specific limiting site conditions

Foundation Investigation

Record logs in Engineering Field Book or on Form SCS-ENG-538, "Soil Investigation to Determine Suitability of Pond Site."

Design

Record on appropriate SCS forms.

1. Determine design "Q" for structure.
2. Plot profile along centerline of dam and profile along centerline of emergency spillway.
3. Show locations of structure features such as spillways. etc.
4. Critical dimensions.
5. Borrow and spoil areas.
6. Cross-section of dam showing principal spillway data.
7. Special design features for fish management, recreation, etc., as necessary.
8. Quantity computation as needed.
9. Principles given in Chapter 5, "Engineering Field Manual for Conservation Practices," for preparing plans shall be followed.

Check Data

Record in Engineering Field Book and/or on Form PA-ENG-23.

- 1 Profile notes along centerline of completed embankment.
2. Cross section notes at one or more locations on the completed embankment.
3. Profile and cross section notes of emergency spillway to show that design grade and dimensions were met.
4. Elevation of crest of inlet and invert of outlet.
5. Notes and measurements to show that the structure was constructed as planned and that special design features were met.

NOTE: Survey data will be plotted in red on "As Built" plans or Form PA-ENG-23 to show compliance as appropriate.