

**NATURAL RESOURCES CONSERVATION SERVICE
DOCUMENTATION AND CERTIFICATION**

**WATER AND SEDIMENT CONTROL BASIN
Code 638**

The items below shall be recorded in the conservation plan, conservation notes or an approved form as minimum documentation requirements for a practice.

1. Location and Site Investigation

Environmental Checklist Form (CB-EVC-2)

Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide

Location Map (Topographic Quadrangles)

Aerial Photos

Surveying Plat (Property Limits)

Flooding Maps (FEMA)

SHPO - Cultural Resources Inventory

Maps from Utilities Co. Providers

References:

- TR-1, Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide
- NRCS, GM 420, Part 401, Cultural Resources
- USGS Topographic Quadrangles
- Conservation Map

2. Soils/Geology Investigation

Geologic Maps

Soil Boring - Form CB-ENG-016, Site Investigation Log Sheet

Conservation Plan Soil Map

Log Test Pit

Soil Testing Lab (Optional)

References:

- NRCS Area Soil Survey
- TR-1, Form CB-ENG-016, Site Investigation Log Sheet
- Unified Soil Classification Chart
- Conservation Plan Soil Map
- 210-VI-NEH-650.04, Chapter 4, Elementary Soil Engineering Plans
- 210-VI-GN-03, Geologic Investigation
- 210-VI-NEH-08, Engineering Geology

3. Engineering Survey

Form SCS-ENG-28

Form SCS-ENG-29

Surveying Computer Programs

References:

- 210-VI-TR-62, Engineering Layout, Notes, Staking and Calculations
- 210-VI-650.01, NEH Chapter 1, Engineering Survey

4. Engineering Criteria

References:

- CB FOTG Sec. IV, Code 638, Water and Sediment Control Basin
- CB FOTG Sec. IV, Code 554, Drainage Water Management (If applicable)
- CB FOTG Sec. IV, Code 533, Pumping Plant for Water Control (If applicable)
- CB FOTG Sec. IV, Code 516, Pipeline (If applicable)
- CB FOTG Sec. IV, Code 342, Critical Area Planting
- CB FOTG Sec. IV, Code 484, Mulching
- CB FOTG Sec. IV, Code 362, Diversion
- CB FOTG Sec. IV, Code 412, Grassed Waterway
- 210-VI-NEH-650, Engineering Field Handbook
- 210-VI-NEH-11, Section 11, Drop Spillways
- 210-VI-NEH-5, Section 5, Hydraulics
- 210-VI-NEH-14, Section 14, Chute Spillways
- 210-VI-NEH-650.02, EFH Chapter 2, Estimating Runoff and Peak Discharges
- 210-VI-NEH-650.03, EFH Chapter 3, Hydraulics
- 210-VI-NEH-650.06, EFH Chapter 6, Structures

5. Drafting and Drawings

Drafting Computer Programs Output
Sketches and Drawings

References:

- 210-VI-NEH-650.05, EFH Chapter 5, Preparation of Engineering Plans
- 210-VI-TR-73, Computer Aided Design and Drafting (CADD) Standards

6. Engineering Cost Estimates

References:

- CB FOTG Section I, Cost Data
- Local Suppliers Material Cost Lists
- Blue Book

7. Construction Materials and Specifications

References:

- 210-VI-NEH-650.17, EFH Chapter 17, Construction and Construction Materials

- ASTM
- Local Suppliers
- 210-VI-NEH - Part 642, Specifications for Construction Contracts

8. Installation and Certification

Certification that application meets NRCS standards and specifications

Reference:

- 210-VI-NEH-19, Section 19, Construction Inspection