

PART 511 - DESIGN

SUBPART A - PROCEDURES

IN511.08 Construction Plans

(a) The completed construction plans consisting of the drawings and specifications shall show sufficient information so that (1) it can be reviewed and approved by state and local agencies, along with the design report and supporting design file as required, (2) any qualified person can accurately locate and layout the job, and (3) the contractor has adequate information to construct the job as designed and has descriptions of the type and quality of materials to be used.

(b) Each completed construction plan shall contain:

- (1) A location map with north arrow and scale.
- (2) The location of all roads, fences, buildings, utilities, bridges, culverts, property lines, landowners, and survey control points and lines within construction area.
- (3) Benchmarks and legends.
- (4) Watershed boundary (where applicable).
- (5) Statement regarding underground utilities - "Notice to Landowners and Contractors" (where applicable) and other similar statements.
- (6) Necessary site preparation, including clearing and grubbing (where applicable).
- (7) Necessary plan views, profiles, cross-sections and detail drawings to completely describe the work.
- (8) Pertinent soil logs, groundwater levels and other geologic data.
- (9) A listing of quantities of work and materials.
- (10) Revegetation requirements for disturbed areas.

In addition to the information listed above, additional minimum requirements for various conservation practices are listed in the Engineering Field Handbook, Chapter 5.

PART 511 - DESIGN

SUBPART B - DOCUMENTATION

IN511.10 Scope

Design computations, notes, and drawings prepared for all designs within approval categories I through V (See Part 501) shall be recorded neatly and organized.

IN511.11 Design Computations, Notes and Drawings

(a) All design and quantity computations will be made on standard computation sheets SCS-ENG-522, 522A, 523, or 523A unless special worksheets are available.

(b) The design computations must document the design process, the design capacities and the dimensions of the work.

(c) Appropriate design drawings, diagrams, graphs, sketches or other pictorial representations should be physically incorporated into the computation file whenever the size and scale permit.

(d) Construction drawings that must be drawn on larger sheets and cannot be folded to computation sheet size are to be cited at the appropriate place in the computations by a notation that fully identifies the drawing and its file location. Drawings may be reduced to appropriate size.

(e) Insofar as is practicable, supporting data and computations will be shown on separate sheets or in such a manner as to separate layout and construction details from supporting data and calculation.

(f) The supporting data and computations will accompany the drawings until the drawings have been checked and approved.

(g) Unless otherwise prescribed, all plans and supporting data shall be filed in the agricultural service center field office servicing the county wherein the work is located.