



United States  
Department of  
Agriculture

Soil  
Conservation  
Service

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218

November 30, 1981

NATIONAL ENGINEERING MANUAL  
SUPPLEMENT 7, PARTS IA504 AND IA512

SUBJECT: Reservoir Sedimentation Surveys; Inspection of Construction Work;  
Engineering Equipment, Records and Coordination; and As-Built Plans

Purpose. This supplement transmits current Iowa policy on reservoir sedimentation surveys; inspection of construction work; maintenance of construction inspection records; and developing, reproducing, and disposition of As-Built plans.

Effective Date. This supplement is effective upon receipt.

Filing Instructions. Pages IA504-10(1), (2), and (3) should be added following page 504-10. Pages IA512-12(1) and (2) should be added following page 512-11. Page IA512-14(1) should be added following page 512-14. Page IA512-17(1) should be added following page 512-17.

This supplement should be noted on the Iowa Supplement Tabulation Sheet. This transmittal should be destroyed when the material has been filed.

William J. Brune  
State Conservationist

Attachments

AC  
DC  
EN2  
SO  
TSC  
SCE Midwest States



The Soil Conservation Service  
is an agency of the  
Department of Agriculture

SUBPART D - INSPECTION OF CONSTRUCTION WORK

IA512.32(b)(2)(ii)(H)

§IA512.32 Inspection procedures.

(b)(1) The district conservationist is responsible for determining inspection needs for jobs approved by the field office staff.

(2) The following guidelines will be used in determining the degree of inspection for a Class I, II, or III job:

- (i) Work being installed by a contractor
  - (A) Is the contractor experienced in this type of work?
  - (B) Has his past work been satisfactory?
  - (C) Have all site conditions which may affect the job been determined?
  - (D) Have adequate plans been furnished and discussed with the contractor?
  - (E) Can the job be built without special knowledge other than that normally expected from contractors doing this type of work?
  - (F) Will all components of the practice be visible when the job is completed, or will the contractor's past performance give reasonable assurance that underground work will be installed correctly?
  - (G) If the answer to any of these questions indicate that technical help is needed during construction, at least one inspection should be scheduled.
  - (H) If the answers to the above questions indicate that no technical help is needed, no inspection need be made during construction. A final checkout will suffice or a certification of completion from the contractor may be accepted.
  
- (ii) Work being installed by the landuser
  - (A) Has the landuser had any experience with this type of work?
  - (B) Does the result of similar work on the farm indicate that the landuser can install the practice without difficulty?
  - (C) Does the landuser have adequate equipment for the job?
  - (D) Does the job have any technical factors of a critical nature which the landuser might not understand or know about?
  - (E) Have adequate plans been furnished and personally discussed with the landuser?
  - (F) Have specifications been personally explained to the landuser?
  - (G) Do site conditions indicate that difficult construction problems may be expected?
  - (H) Will any components of the practice be buried and not accessible after the job is completed?

IA512-12(1)

PART 512 - CONSTRUCTION

IA512.32(b)(2)(ii)(I)

- (I) If the answer to any of these questions indicates that technical help is needed during construction, at least one inspection shall be scheduled.
- (J) If the answers to the above questions indicate that no technical help is needed, no inspection need be made during construction. A final checkout will suffice.

(3) Class IV jobs

(i) In addition to the guidelines for Class I, II, and III jobs, for practices involving considerable quantities of items such as reinforced concrete or controlled earth placement, more frequent inspection is required. The frequency of inspection must be sufficient to control all major technical factors of installation.

(ii) Because of the wide variety and complexity of jobs, needed inspections may vary from one, two, or three inspections to almost daily spot inspections of certain jobs.

(iii) When inspection needs cannot be determined at the time of layout, a minimum of one inspection will be scheduled shortly after construction starts. From this the need and frequency of additional inspections on the job will be determined.

*Class I - VIII*

(c)(3) The state conservation engineer will recommend to the area conservationist whether continuous inspection or periodic inspection will be required for each element of the job.

§IA512.33 Inspection of materials

(d) The inspector shall determine that the material is as specified for the job in the proper size and quantity. Corrugated metal pipe and drain materials will be accompanied by suitable test results unless they appear on the current prequalified list.

§IA512.41 Records

(c)(1) Measurements, surveys, observations, etc. made during inspections of Class I through IV jobs will be recorded on looseleaf field note paper or field sheets as appropriate except when the job is part of a formal Federal or local contract. Records for formal contracts will be kept in bound books in accordance with Part 540, NEM. (Documentation for jobs not under formal contract will comply with Title 450, Part 407, General Manual.)

*This is not correct with the new GM Supplement*

§IA512.50 General

(a) Definition: As-Built Plans - original as-built plans are prints of the construction drawings on which all changes made during construction are recorded.

§IA512.52 Documentation

(a) Recording Changes

(5) As-built changes shall be recorded on a blueline or blackline print of the construction plans.

(6) The SCS personnel assigned to inspect construction will be responsible for recording changes on the as-built plan.

(d) Checking

The government representative on project work and the district conservationist on all other work will be responsible for forwarding the as-built plans on all major structural works of improvement (Class V through VIII) and all inventory-type dams to the state office through channels for reproduction and distribution. The SCS Dam Inventory, SCS-INM-3 should accompany all as-built plans of inventory type dams.

(e) Reproduction

(6) The state office will print one copy of the as-built (10" x 15" maximum) for each sponsor who has operation and maintenance responsibilities. Other copies will be printed and distributed as requested.

§IA512.53 Disposition

(a) The original as-built plans of structures shall be retained in the state office, who will keep them for 10 years and then return to the sponsor.

(b) Other copies

(1) The state office will retain copies on reproducible negatives.

(2) The area office and the field office do not need to keep copies.