

OPERATION AND MAINTENANCE AGREEMENT  
FOR  
STRUCTURAL MEASURES

This agreement made on March 27, 1970 is between the Soil Conservation Service, United States Department of Agriculture, hereinafter referred to as the Service, and the following organization, hereinafter referred to as the Sponsor:

GRADY COUNTY SOIL AND WATER CONSERVATION DISTRICT

The Sponsor and the Service agree to carry out the plan on the attached pages for the operation and maintenance of structural measures in the

BITTER CREEK SUBWATERSHED OF THE WASHITA RIVER

Watershed Project, State of Oklahoma. The measures covered by the agreement are identified as:

Floodwater Retarding Structures Nos. 1 through  
22 and mitigating measures.

Name of Sponsor Grady County Soil & Water Conservation District

By Malvin Heath Title Chairman

This action was authorized at an official meeting of the Sponsor named immediately above on March 27, 1970 at Chickasha State of Oklahoma.

Attest Robert Myers Title Secretary  
Acting

Soil Conservation Service, United States Department of Agriculture

By C. R. Tidwell Title State Conservationist

OPERATION AND MAINTENANCE PLAN

STRUCTURAL MEASURES

I. OPERATION

A. The Sponsor will:

Be responsible for and operate or have operated without cost to the Service the structural measures. Operation includes, but is not limited to, gates and other features to regulate the retention or release of water for irrigation, drainage, flood control, or other use in accordance with a predetermined plan. Operation must comply with permits granted under State or local laws as they apply to the storage, release, depletion, etc., of water. Operation must be carried out in a manner that will assure that the structural measures will serve the purpose for which installed as set forth in the Work Plan.

B. The Service will:

Upon request of the Sponsor and to the extent that its resources permit, provide consultative assistance in the operation of the structural measures.

II. MAINTENANCE

A. The Sponsor will:

1. Be responsible for and promptly perform or have performed without cost to the Service except as provided in Paragraph III, Establishment Period, all maintenance of the structural measures determined by either the Sponsor or the Service to be needed.
2. Maintain the works of improvement. Examples of such maintenance include, but are not limited to, the following:
  - a. Vegetation - a protective cover of desirable species.
    - (1) Reseed significant areas of poor stand or areas destroyed by erosion. If necessary, restore areas of erosion before reseeding.
    - (2) By cutting or spraying, remove undesirable trees and shrubs. Make sure local ordinances regarding spraying are followed.

- (3) Fertilize vegetation as required to maintain a vigorous growth.
- (4) By cutting or spraying, control undesirable vegetation that seriously competes with desirable species.
- (5) Regularly inspect grazed areas to insure proper grazing.
- (6) Mow grass at regular intervals to maintain optimum cover.

## b. Earth Dams

- (1) Replace soil removed by rodents.
- (2) Inspect drainage systems and relief wells annually for proper functioning and clean out or replace as necessary.
- (3) Maintain riprap or other wave protection measures.
- (4) Remove and/or stabilize slide material as soon as practicable. It may be necessary to construct a berm or flatten the slope.
- (5) Restore to proper elevation dikes which have settled significantly.
- (6) Emergency spillways are designed to carry safely the design discharge through the entrance, control, and exit sections. However, in most spillways, safe velocities are exceeded in the exit section. If discharge occurs, erosion can be expected in this section. Replace eroded material and revegetate any eroded areas.
- (7) Safe velocities are usually exceeded in all sections of the spillway if discharge is in excess of the design discharge. Under these conditions, much more serious erosion can be expected. The maintenance required is the same as stated in IIb(6), but the severity of the damage may be much greater.

## c. Structures

- (1) Stabilize the plunge pool with appropriate maintenance measures at the outlet of principal spillways having proper outlets.

II. MAINTENANCE (continued)

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- (2) Restore eroded earth materials or damaged riprap around energy dissipaters and reseed the area if appropriate.
- (3) Restore concrete that has deteriorated.
- (4) Regularly inspect and maintain in proper working order gates and valves, trash racks, and metal works. Immediately remove ice and debris which may hamper their function. Restore protective coatings if necessary.
- (5) Maintain fences in good condition until there is mutual agreement that they are no longer needed to protect structural works of improvement.
- (6) Replace posts, wire, or gates damaged by ice, debris, livestock or vandalism.

3. Obtain prior Service approval of all plans, designs and specifications for maintenance work involving major repair.

B. The Service will:

Upon request of the Sponsor and to the extent that its resources will permit, provide consultative assistance in the preparation of plans, designs and specifications for needed repair of the structural measures.

III. ESTABLISHMENT PERIOD

- A. During an Establishment Period, as herein defined, the Service will bear such part of the cost of any needed major repairs to the structural measures, including associated vegetative work, as is proportionate to the original construction costs borne by the Service in the construction of the structural measures except that the Service will not bear any of the costs for:
  1. Repairs to channels or portions thereof which do not have permanent linings such as concrete, riprap, or grouted rock.
  2. Repairs determined by the Service to have been occasioned by improper operation or maintenance, or both.
  3. Repairs applicable to municipal or industrial water supply or to any other purpose for which construction costs are not authorized to be paid for in whole or in part with funds appropriated to the Service.

4. Repairs that are mutually determined by the Sponsor and the Service as being items of normal maintenance rather than major repairs and are not therefore in keeping with the spirit and intent of the Establishment Period provisions.
- B. The Establishment Period for structural measures (exclusive of any associated vegetative work) is a period of three years ending at midnight on the third anniversary of the date on which the structural measure is accepted.
- C. The Establishment Period for vegetative work associated with a structural measure is a period from date of acceptance of the initial vegetative work to midnight of the date on which the Service writes the Sponsor advising that an adequate vegetative cover has been obtained. However, this period shall not exceed two growing seasons or the end of the Establishment Period for the associated structural measure, whichever is greater in time.
- D. As used in the two preceding paragraphs, and elsewhere in this Plan, the following words have the meanings described below:

ACCEPTED, ACCEPTANCE: The date structural or vegetation measures are accepted from the contractor when a contract is involved, or the date structural or vegetative measures are completed to the satisfaction of the Service when force account operations are involved.

ADEQUATE VEGETATIVE COVER: Seventy percent (70%) cover of the desirable species, with no active rilling that cannot be controlled by the vegetation.

- E. Major repair may involve such things as (1) repairing separated joints, cracks or breaks in the principal spillway, (2) correcting seepage, (3) replacing significant backfill around structures resulting from ~~major~~ erosion damage, (4) major revegetation due to failure to obtain an adequate vegetative cover, and (5) restoring areas with significant erosion caused by unusual flow (volume, recurrence or extended period of time) in emergency spillways.
- F. No action with respect to needed repairs during the Establishment Period will be taken by the Sponsor or the Service which would lessen or adversely affect any legal liability of any contractor or his surety for payment of the cost of the repairs.

IV. INSPECTIONS AND REPORTS

- A. During the Establishment Period, the Sponsor and the Service will jointly inspect the structural measures at least annually and after unusually severe floods or the occurrence of any other unusual

condition that might adversely affect the structural measures. It is desirable that the annual inspections be performed during the month shown below. Any supplemental inspections then determined necessary will be scheduled and agreed to at that time.

September or October  
(Month)

- B. After the Establishment Period, the structural measures will be inspected annually by the Sponsor, preferable during the month shown below, and after unusually severe floods or the occurrence of any other unusual condition that might adversely affect the structural measures.

September or October  
(Month)

- C. After the Establishment Period, the Service may inspect the structural measures at any reasonable time.
- D. A written report will be made of each inspection. The report of joint inspections will be prepared by the Sponsor with the assistance of the Service. A copy of each report will be provided by the party preparing the report to the other party within ten days of the date on which the inspection was made.

V. RECORDS

The Sponsor will maintain in a centralized location a record of all inspections performed both individually and jointly by the Sponsor and the Service, and of all significant actions taken by the Sponsor with respect to operation and maintenance. The Service may inspect these records at any reasonable time.

VI. GENERAL

- A. The Sponsor will:
1. Prohibit the installation of any structures or facilities that will interfere with the operation or maintenance of structural measures.
  2. Obtain prior Service approval of the plans and specifications for any alteration or improvement to the structural measures.

VI. GENERAL (Continued)

3. Obtain prior Service approval of any agreement to be entered into with other parties for the operation or maintenance of all or any part of the structural measures, and provide the Service with a copy of the agreement after it has been signed by the Sponsor and the other party.
- B. Service personnel will be provided the right of free access to the structural measures at any reasonable time for the purpose of carrying out the terms of this Plan.
- C. The responsibilities of the Sponsor under this Plan are effective simultaneously with the acceptance of the works of improvement in whole or in part.