

166.3.06

B. Alter Lakes or Ponds

If alteration is shown as a Pay Item, work shall include activities to change the physical size, shape, or depth of the lake; or to change the high-water level, or elevation of the dam or portions of it. This work shall be done according to the Plan details.

166.3.06 Quality Acceptance

General Provisions 101 through 150.

166.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

166.4 Measurement

Alteration or restoration of a lake is measured by the unit as indicated on the Plans and in the Proposal. Payment is full compensation for all necessary labor, equipment, tools, materials and incidentals required to complete the work to the satisfaction of the Engineer.

166.4.01 Limits

General Provisions 101 through 150.

166.5 Payment

Alteration or restoration of a lake is paid for at the Contract Unit Price bid per each for the specified operation as defined in Subsection 166.3.05, "Construction." Payment is full compensation for furnishing all labor, equipment, materials, tools and incidentals, and performing the work.

A. Restoration of a Lake

When the lake or pond is used as a settling basin, the work is paid for on the following schedule:

- Ten percent of the bid amount will be paid each time the lake or pond is cleaned of silt and debris during the construction period up to four occurrences.
- The remaining amount will be paid when the final cleaning and restoration are complete and accepted.

B. Alteration of a Lake

Alteration is paid on a pro-rata basis of the bid amount as the work progresses.

Payment will be made under:

| | | |
|--------------|------------------------------|----------|
| Item No. 166 | Restoration of lake, sta. __ | Per each |
| Item No. 166 | Alteration of lake, sta. __ | Per each |

166.5.01 Adjustments

General Provisions 101 through 150.

Section 167—Water Quality Monitoring

167.1 General Description

Specifications for this work will be included elsewhere in the Contract.

Section 170—Silt Retention Barrier

170.1 General Description

This work includes controlling water pollution where embankment construction or material removal may cause stream pollution.

Requirements of Sections 161, 162, and 163 apply to this Item. However, payment will not be made for erosion control items in those sections used with this work.

170.1.01 Definitions

General Provisions 101 through 150.

170.1.02 Related References**A. Standard Specifications**

Section 161—Control of Soil Erosion and Sedimentation

Section 162—Erosion Control Check Dams

Section 163—Miscellaneous Erosion Control Items

Section 171—Temporary Silt Fence

B. Referenced Documents

General Provisions 101 through 150.

170.1.03 Submittals

General Provisions 101 through 150.

170.2 Materials

Use suitable permeable or impermeable materials. These materials include canvas duck, clear or black polyethylene film, or fabric that meets the requirements of Type C, temporary silt fence, found in Section 171.

Alternate solutions and materials may be used if Engineer approves.

Use barriers long enough and wide enough to control turbidity.

170.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

170.3 Construction Requirements**170.3.01 Personnel**

General Provisions 101 through 150.

170.3.02 Equipment

General Provisions 101 through 150.

170.3.03 Preparation

General Provisions 101 through 150.

170.3.04 Fabrication

General Provisions 101 through 150.

170.3.05 Construction

Install a silt retention barrier as follows:

1. Confine dredged materials to ponding areas or settlement basins using standpipes or weirs.
2. Place the barrier approximately 25 ft (7.5 m) outside the affected construction area, and at a depth within 5 ft (1.5 m) of the bottom.
3. If the body of water has a significant current, place the barrier parallel to the water flow. Ensure that the fabric is permeable. In smaller streams, place the barrier close to the construction area.
4. Vary the dimensions and methods to suit the conditions and to meet the requirements of other local and State water control agencies to ensure that silt dispersion is effectively controlled.
5. Barriers shall be either staked or floating depending upon current, tides, water depth, and other variables.

If a staked barrier is used to protect a stream being relocated or widened, ensure that the fabric:

- Extends to the bottom of the stream and is weighted to prevent it from floating
- Is permeable and not trenched in at the bottom
- Extends 2 ft (600 mm) above normal water from the top of the fabric

170.3.06

170.3.06 Quality Acceptance

General Provisions 101 through 150.

170.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

170.4 Measurement

Silt retention barriers, either floating or staked, are measured by the linear foot (meter) of barrier required to prevent siltation and pollution.

170.4.01 Limits

General Provisions 101 through 150.

170.5 Payment

The applicable requirements of Sections 161, 162, and 163 apply to this Item, except that the erosion control items contained in those sections will not be paid for when used in conjunction with this work.

Silt retention barriers will be paid for at the Contract Unit Price for each barrier, complete in place and accepted. Payment is full compensation for furnishing materials, erecting the barrier, removing, and disposing of the barrier when no longer required.

Payment will be made under:

| | | |
|--------------|---------------------------------|-------------------------|
| Item No. 170 | Floating silt retention barrier | Per linear foot (meter) |
| Item No. 170 | Staked silt retention barrier | Per linear foot (meter) |

170.5.01 Adjustments

General Provisions 101 through 150.

Section 171—Silt Fence

171.1 General Description

This work includes furnishing, installing, and removing a water permeable filter fabric fence to remove suspended particles from drainage water.

171.1.01 Definitions

General Provisions 101 through 150.

171.1.02 Related References

A. Standard Specifications

Section 163—Miscellaneous Erosion Control Items

Section 700—Grassing

Section 862—Wood Posts and Bracing

Section 881—Fabrics

Section 894—Fencing

B. Referenced Documents

ASTM D 3786

ASTM D 4355

ASTM D 4632

ASTM D 4751