

1-1 SCOPE:

This section covers methods of measurement and payment for items of Work under this contract.

1-2 REQUIREMENTS:

The total bid price shall cover all Work required by the Contract Documents. All costs in connection with the proper and successful completion of the Work, including furnishing all materials, equipment, supplies, and appurtenances; providing all construction equipment, tools; and performing all necessary labor and supervision to fully complete the Work, shall be included in the unit and lump sum prices bid. All Work not specifically set forth as a pay item in the Bid Form shall be considered a subsidiary obligation of the Contractor and all costs in connection therewith shall be included in the prices bid.

1-3 ESTIMATED QUANTITIES FOR UNIT PRICE BID ITEMS:

All estimated quantities stipulated in the Bid Form for unit price bid items are approximate and are to be used only (a) as a basis for estimating the probable cost of the Work and (b) for the purpose of comparing the bids submitted for the Work. The actual amounts of work performed and materials furnished for unit price bid items may differ from the estimated quantities. The basis of payment for work and materials bid as a unit price will be the actual amount of work done and materials furnished. The Contractor agrees that he will make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of work actually performed and materials actually furnished and the estimated amounts for unit price bid items, except as defined in the GENERAL CONDITIONS Section 11.03.

1-4 DESCRIPTION OF BID ITEMS:

The following items are made up of components described in several individual sections. Payment for these items is described below. The Contractor should refer to the specific technical sections that apply to the individual components. Note that the descriptions below are not intended to be comprehensive listings of each and every work item included in the bid item. The descriptions are intended to supplement the Drawings and in no way relieve the Contractor from completing the work of each bid item according to the Drawings and Specifications.

1. **BID ITEM No. 1, MOBILIZATION:** This item includes project bonding and insurance and all material, equipment and labor required for mobilization of equipment, personnel and construction material on-site; construction staking; establishment and maintenance of a secure work area, on-site construction yard, field office, including temporary utility services; repair parts inventory; security fencing; project signs; preparation and updating of project schedule and schedules of values.

No separate measurement will be made for this work. Payment for all work will be made at the contract lump sum price, which shall not exceed 5 percent of the total base bid. Partial payments for Mobilization will be made as follows:

Pay Period	Percent of Base Bid Complete	Percent Mobilization Payment
1	-	50%
-	75%	30%
-	Substantial Completion	20%

2. **BID ITEM No. 2, CONSTRUCTION SURVEYING:** No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of Contractor's costs. This bid item includes staking horizontal and vertical alignments, construction staking of structures/facilities, subgrade elevations, final grading, and offsets; setting temporary control points; re-establishing land monuments; and providing all other related and necessary labor, equipment, and materials to complete the work. The survey work shall also include topographic surveying of post-construction conditions of the reservoir bottom to document as-constructed conditions.
3. **BID ITEM No. 3, CLEARING AND GRUBBING:** The work to be paid for will be the number of acres acceptably cleared and grubbed, including scalping, within the limits of earthwork as shown on the plans. The lump sum price will include all of Contractor's costs. This bid item includes completing the clearing and grubbing, off-site disposal of vegetation, debris and fish, and providing all other related and necessary labor, equipment, and materials to complete the work.

This bid item shall also include the removal, transport, and offsite disposal of the existing flume and all of its components, including the structure concrete and wingwalls.

4. **BID ITEM No. 4, EARTHWORK:** The measurement and payment for this bid item shall be on a lump sum basis. No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of Contractor's costs. This quantity does not account for shrinkage or expansion. The quantity will be based on the design quantities as represented on the drawings. Remeasurement will not be made of this item during construction. It is intended to pay plan quantity of earthwork on a lump sum basis unless changes are requested by the Owner or mistakes in the quantity are discovered.

This bid item includes excavation, structure excavation and backfill, transportation, stockpiling, haul of previously excavated material to locations requiring fill by the drawings, placement and recompaction of material into embankment fill or channel fill; reconditioning material as necessary to meet moisture-density requirements, and haul of excavated material off-site.

This bid item also includes salvaging, transporting, and stockpiling of all rock sized 4" and greater deposited and/or buried within the sediment near the surface of the reservoir. This rock will be used to armor the flume, upstream dam face, and at other locations as designated by the Owner. The salvaged riprap/rock shall be first used and placed at the flume. The remaining salvaged riprap/rock, leftover after the flume work is complete, shall be placed on the upstream dam face or at other locations as designated by the Owner.

Water Control shall not be measured and paid for separately, but shall be part of the lump sum price for earthwork. The lump sum price will include the preparation of a written water control plan, well installation and materials, pumps and associated energy costs, sediment control means and devices including equipment, labor, materials, inlets, pipes, and all other material, transportation, maintenance, and operations necessary for control of surface and/or subsurface water.

5. **BID ITEM No. 5, PARSHALL FLUME:** The measurement for payment for this bid item shall be on a lump sum basis and shall include all of Contractor's costs. This bid item includes all materials, equipment and labor necessary for furnishing and installing the Parshall flume, stilling well, electrical monitoring equipment associated with the flume, and all other associated components as shown on the drawings. This bid item shall also include all

concrete, reinforcing steel, forms, and all other required components to construct the work complete in place as shown on the drawings.

6. **BID ITEM No. 6, SPILLWAY SCOUR HOLE RERAIR:** The measurement for payment for this bid item shall be on a lump sum basis and shall include all of Contractor's costs. This bid item includes all materials, equipment and labor necessary for the placement of grouted 36-inch minimum boulders in the scour hole, and replacement of riprap in the spillway outside of the scour hole to restore the spillway back to a more uniform grade as shown on the drawings. Contractor shall use salvaged on-site materials whenever possible to install boulders in the primary scour hole. Grout shall be installed beneath the existing grouted riprap for stabilization, filling holes in the scour hole, and cleanly placing around the boulders in the primary scour hole of the spillway. The steel pipe weep drains shall be installed between grouted boulders as shown on the drawings and included in the lump sum price.
7. **BID ITEM No. 7, SITE RESTORATION AND REVEGATATION:** No separate measurement for payment will be made for any labor, equipment, and materials required restoring and revegetating all the areas affected by the construction back to its original or better condition. The lump sum price will include all of Contractor's costs. This bid item also includes removal and disposal of all damaged, destroyed, or unused items left on the site by the Contractor, including excess earth, repair and cleaning of all earth, gravel, asphalt or concrete surfaces to their original conditions, and replacement of any and all facilities removed, damaged, or destroyed during the process of the work. Such facilities shall include, but shall not be limited to, mailboxes, signs, culverts, fences, driveways, plants, grass, trees on private property, poles and power poles, unless specifically identified for measurement and payment. Partial payments for Site Restoration and Revegetation will be made as follows:

Pay Period	Percent of Base Bid Complete	Percent Payment
-	Project Closeout	50%
-	After 70% of Vegetation Establishes	50%

END OF SECTION