

SECTION 01150
MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCHEDULE OF VALUES

- A. The Contractor shall submit a Schedule of Values for the Work of the Contract, including quantities and unit prices aggregating the Contract Price, for approval in accordance with the Standard General Conditions.
- B. If any unit price in the approved Schedule of Values requires that the said unit price cover and be considered compensation for certain work or material essential to the item, this same work or material will not also be measured or paid for under any other pay item which may appear elsewhere in the Conformed Project Manual.

1.02 MEASUREMENT OF QUANTITIES

- A. Engineer will measure work completed under the Contract according to the standards of weights and measures recognized by the U.S. Bureau of Standards.
- B. The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the Contract will be those methods generally recognized as conforming to good engineering practice.
- C. Engineer will measure for area computations on the surface. Pay measurements for area computations will not exceed the neat dimensions indicated on the Conformed Project Manual, unless Engineer otherwise orders in writing.
- D. Engineer will measure structures according to neat lines indicated on the Conformed Project Manual or as altered to fit field conditions. Owner will not pay for length, width, or depth in excess of that indicated in the Conformed Project Manual or specified for any construction, unless Engineer otherwise approves in writing.
- E. Engineer will measure items by the linear foot, such as pipe, parallel to the existing grade.
- F. Engineer will use the average end area method, based on horizontal measurements, in computing volumes of excavation, or other acceptable methods.
- G. The term "each", when used as an item of payment, will mean complete payment for the Work described in the Conformed Project Manual.
- H. The term "lump sum", when used as an item of payment, will mean complete payment for the Work described in the Conformed Project Manual, including all necessary fittings and accessories, and required testing completed. The Contractor is responsible for all costs associated with supplying and proper disposal of all test water.

- 1.03 SCOPE OF PAYMENT: The Contractor will receive and accept compensation provided for in the Conformed Project Manual as full payment for furnishing materials, labor, tools, and equipment and for performing Work under the Contract in a complete and acceptable manner and for all risk, loss, damage, or expense of whatever character arising out of the nature of the Work or the prosecution thereof, subject to the provisions of the General Conditions.

1.04 DESCRIPTION OF BID ITEMS

A. LUMP SUM ITEMS

Lump Sum Items on the Proposal (or Bid) Form are those items included in the Base Bid for the Contract, including all work shown on the Conformed Project Manual. Owner will pay for placement of all materials shown on or reasonably inferred from the Conformed Project Manual. Contractor shall furnish and install all materials according to the Conformed Project Manual. No measurement will be made. The lump sum price will include all work and materials required to complete the item described in good working order. Owner will pay in accordance with the proposal including but not be limited to the placing and installing of materials and the furnishing of such manpower and equipment as required in order to accomplish the work. The Lump Sum Scope of Work is defined as follows:

The project, located in Columbia County, shall include but not limited to repairing 5 concrete 3-sided rigid frame bridges located at Camp Road over Hemlock Creek, Christy Hill Road over Black Run, Diehl Road over a tributary to Mud Creek, Lyons Road over Black Run and Slate Road over Spruce Run. The project sites require gunite to be applied to all abutment legs, wings, footings, collars and deck undersides after surface preparation and filling cavities, replacement of any missing/collapsed wings, site dewatering and stream flow diversion, placement of riprap rock protection, installing erosion and sediment control measures, traffic control, and all necessary incidental work, appurtenances and site restoration for said construction.

1.05 GENERAL NOTES.

The following items are part of the Lump Sum Scope of Work. The Contractor shall include in his Lump Sum prices the cost to perform/provide all of the following that are necessary to complete this project. No separate measurement or payment will be made. The Conformed Project Manual requires the Contractor to provide a completely interconnected and functional system. The Contractor shall provide all labor, equipment and materials which are necessary to carry out the full intent and meaning of the Conformed Project Manual or to be reasonably inferred therefrom.

1. The Contractor shall include all costs of mobilization in the Lump Sum Bid Items 101, 102, 103, 104 and 105. Mobilization shall consist of the assembling and setting up for the project, the Contractor's necessary general plant, including Contractor's offices, storage areas, temporary utilities, sanitary and other facilities, as required by the Conformed Project Manual and special requirements of the Contract, as well as by local or State law and regulation.
2. Mobilize men, equipment and materials needed to the jobsite, and remove same when complete (demobilization). Mobilization shall include all necessary bonds and insurance. No separate payment will be made for insurance and bonds and/or any other initial expense.
3. Install and maintain soil erosion & sediment control measures throughout the duration of the project.
4. Surveying, construction layout and measurement of quantities.
5. Consult with utilities and carefully field verify the location and depth of any underground utility line(s). Follow requirements of PA One Call.
6. Remove obstructions such as trees, tree roots, vegetation, grass, timber, debris, brush, rock, leaning utility poles, embankment retaining devices, etc. that may interfere with the proposed construction.

7. Control dust and remove/dispose of excess or unwanted material or debris.
8. Furnish and install cofferdams, site dewatering, and bypass pipes and pumping as required.
9. Saw-cut existing roadway, pipe, conduit, structures of any nature as needed.
10. Furnish, haul, and clean-up all materials used on the site.
11. Remove and reset property line markers (pins, pipes, etc.).
12. Remove, relocate, and reset street signs, mailboxes, fencing, hand railings, steps, stairways and short retaining walls.
13. Remove all unused excavated material from the project site.
14. Provide final cleaning of roadway.
15. Furnish and install as needed gunite, grout, 2A, 3A, 2RC and 2B aggregate, well compacted AASHTO # 57 stone, concrete, select material, geotextile, rip-rap, butyl tape, fittings, shoring, sheeting, and bracing.
16. Gunite/concrete testing, backfill/embankment testing, water sampling and analysis.
17. Place topsoil, fertilize, seed, and mulch plus water new topsoil and seed.
18. Furnish reproducible As-Built Plans to the Engineer prior to final payment.
19. The Contractor shall include all costs for the erosion & sediment pollution control measures in the Lump Sum Bid Items 101, 102, 103, 104 and 105.
20. Coordinate and communicate work scope and schedule with adjacent property owners.
21. Coordinate, compete and furnish a written "Authorization to Enter" form.
22. Attend preconstruction and progress meetings.

1.06 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Owner will not pay Contractor for any of the following:
 1. Products wasted or disposed of in a manner that is not acceptable.
 2. Products determined as unacceptable before or after placement.
 3. Products not completely unloaded from the transporting vehicle.
 4. Products placed beyond the lines and levels of the required Work.
 5. Products remaining on hand after completion of the Work.
 6. Loading, hauling and disposing of rejected Products.

END OF SECTION