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SECTION 01 22 00.00 10

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

This section covers measurement and payment of items applicable to the performance of the work under this contract.

1.2 JOB PAYMENT ITEMS

Payment items for the work of this contract for which contract job payments will be made are listed in the BIDDING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular job or unit price payment item, shall be included in the listed job item most closely associated with the work involved. The job price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided.

1.2.1 Reimbursement For Actual Performance And Payment Bond Premiums

1.2.1.1 Payment

Payment for reimbursement for actual performance and payment bond premiums will be made as specified in 00100; FAR Clauses 52.228-13 ALTERNTIVE PAYMENT PROTECTIONS and 52.228-15 PERFORMANCE AND PAYMENT BONDS--CONSTRUCTION.

1.2.1.2 Unit of Measure

Unit of measure: Job.

1.2.1.3 Payment Item

Item No. 0001 Reimbursement for Actual Performance and Payment Bond Premiums

Item No. 1001 Reimbursement for Actual Performance and Payment Bond Premiums

Item No. 2001 Reimbursement for Actual Performance and Payment Bond Premiums

Item No. 3001 Reimbursement for Actual Performance and Payment Bond Premiums

1.2.2 Erosion and Sediment Controls

1.2.2.1 Payment

This work is specified in Section 01 57 23.00 08 ENVIRONMENTAL PROTECTION, Section 01 57 23.00 08 STORM WATER POLLUTION CONTROL, Section 31 32 11 SOIL

SURFACE EROSION CONTROL, and Section 32 92 19 SEEDING. Payment will be made for costs associated with furnishing, installing, maintaining, and removing sediment and erosion controls measures; including but not limited to compost filter socks, inlet protection, seeding, fertilizer, lime, mulch, erosion control blanket, pumped sediment removal system, dewatering, dust control, temporary stream crossing, etc., as shown on the drawings or as defined in the Erosion and Sediment Control Plan. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.2.2.2 Unit of Measure

Unit of measure: Job.

1.2.2.3 Payment Item

Item No. 0003 Erosion and Sediment Controls

1.2.3 Diversion Structure

1.2.3.1 Payment

This work is specified in Section 01 57 23.00 08 STORM WATER POLLUTION CONTROL and Section 33 01 30.72 08 RELINING CULVERTS. Payment will be made for costs associated with diversion of culvert flows, including, but not limited to, rock filter, temporary sandbag dam, and pipe flume. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.2.3.2 Unit of Measure

Unit of measure: Job.

1.2.3.3 Payment Item

Item No. 0004 Diversion Structure

1.2.4 Site Demolition

1.2.4.1 Payment

Payment shall be made for costs associated with removal and disposal of materials from the failed portion of the arch culvert and the concrete headwall, security fence, and concrete blocks and steel plates from the temporary stabilization contract. Payment shall also be made for removal of section of security fence and any pipes or abandoned utilities that are exposed during excavation and any concrete or asphalt from the roadway or driveways. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.2.4.2 Unit of Measure

Unit of measure: Job

1.2.4.3 Payment Items

Item No. 0014 Site Demolition

1.2.5 Stormwater Collection System

1.2.5.1 Payment

Payment will be made for costs associated with the furnishing and installation and removal of 15 and 18 inch temporary slope stormpipes, temporary storm inlets, and sandbags for redirecting stormwater collection system for North Spring Street, not limited to, excavation, bedding, HDPE pipes, concrete, rebar, backfill, etc. Sandbags are to remain in place once construction is complete. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.2.5.2 Unit of Measure

Unit of measure: Job.

1.2.5.3 Payment Item

Item No. 0015 Stormwater Collection System

1.3 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the BIDDING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items.

1.3.1 Digital Progress Images

1.3.1.1 Payment

This work is specified in Section 01 32 33 DIGITAL PROGRESS IMAGES. Payment will be made for costs associated with furnishing digital progress images, as specified. Each set shall consist of all specified hard copies and electronic copies of each photographic session as specified. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.3.1.2 Measurement

Measurement will be made of the number of sets of photographs taken and delivered to the Contracting Officer as approved or directed by the Contracting Officer or authorized representative. Each set shall consist of all specified hard copies and electronic copies of each photographic session as specified.

1.3.1.3 Unit of Measure

Unit of measure: Sets.

1.3.1.4 Payment Item

Item No. 0002 Digital Progress Images

1.3.2 Earthwork

1.3.2.1 Payment

This work is specified in Section 31 00 00 EARTHWORK. Payment will be made for costs associated with required excavation as specified and as shown in the contract drawings. Price shall include an additional diversion structure for excavation in the stream required for R-5 streambank armoring. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.3.2.2 Measurement

Measurement of quantities will be made for the actual volume of common excavation, excavation of existing R-4 material, and excavation required for installation of R-5 streambank armoring completed within the limits, lines and grades shown on the contract drawings. No allowance will be made for overdepth excavation of for the removal of any material outside the required lines unless authorized by the Contracting Officer. The volume of material removed and placed shall be determined by the average-end-area method, based on cross sections taken by field survey prior to and after completion of common excavation, or other method approved by the Contracting Officer. The cross section surveys shall be obtained by the Contracting Officer at a maximum 50-foot interval over the length of disturbance prior to and after excavation to determine the actual amount of material removed. Volume computations shall be performed by the Contractor, and copies of all cross section data and computations shall be submitted to the Contracting Officer within 48 hours following completion of the field cross sections.

1.3.2.3 Unit of Measure

Unit of measure: Cubic Yard.

1.3.2.4 Payment Item

Item No. 0005 Unclassified Excavation

Item No. 0006 Excavation of Existing R-4 Material

Item No. 1002 Excavation for R-5 Streambank Armoring

1.3.3 Stone Protection

1.3.3.1 Payment

This work is specified in Section 31 00 00 EARTHWORK. Payment will be made for costs associated with furnishing and placing R-4 stone for the bank stabilization and bed stabilization, AASHTO #57 stone, AASHTO #1 stone, crest fill 2RC, and R-5 streambank armoring as shown in the construction drawings. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.3.3.2 Measurement

Measurement for payment will be made for the actual volume of stone placed within the limits, lines and grades shown on the contract drawings. The volume of material shall be determined by the average-end-area method based on cross sections taken by field survey prior to and after completion of

stone installation or other method approved by the Contracting Officer. The cross section surveys shall be obtained by the Contracting Officer at a maximum 50-foot interval over the length of the area prior to and after stone installation to determine the actual amount of material placed. Volume computations shall be performed by the Contractor, and copies of all cross section data and computations shall be submitted to the Contracting Officer within 48 hours following completion of the field cross sections.

1.3.3.3 Unit of Measure

Unit of measure: Cubic Yard

1.3.3.4 Payment Items

Item No. 0007 Temporary Stockpile and Reuse of Existing R-4 Material

Item No. 0008 Furnish and Install New R-4 Material

Item No. 0017 Furnish and Install AASHTO #57 Stone

Item No. 0018 Furnish and Install AASHTO #1 Stone

Item No. 0019 Furnish and Install Crest Fill 2RC

Item No. 0020 Furnish and Install R-5 Streambank Armoring

Item No. 1003 Furnish and Install R-5 Streambank Armoring

1.3.4 Centrifugally Cast Concrete Pipe (CCCP) Liner

1.3.4.1 Payment

This work is specified in Sections 33 40 00 STORM DRAIN UTILITIES and 31 00 00 EARTHWORK. Payment will be made for costs associated with installing the CCCP liner including, but not limited to, CCCP liner, flowable mortar, structural fill, cleaning, surface preparation, and temporary stabilization/bracing as required etc. Price shall include all engineering, design, materials, labor, equipment, and supplies associated with this work.

1.3.4.2 Measurement

Measurement for payment shall be based upon the length of CCCP liner installed within the limits as shown on the contract drawings and as accepted by the Contracting Officer.

1.3.4.3 Unit of Measure

Unit of measure: Linear Foot

1.3.4.4 Payment Item

0009 CCCP Liner

2002 Upstream Culvert Lining

3002 Downstream Culvert Extension Lining

1.3.5 Invert Repair Mortar

1.3.5.1 Payment

This work is specified in Sections 33 40 00 STORM DRAIN UTILITIES and 31 00 00 EARTHWORK. Payment will be made for costs associated with installing the invert repair mortar. Price shall include all engineering, design, materials, labor, equipment, and supplies associated with this work.

1.3.5.2 Measurement

Measurement for payment shall be based upon the length of invert repair mortar installed within the limits as shown on the contract drawings and as accepted by the Contracting Officer.

1.3.5.3 Unit of Measure

Unit of measure: Linear Foot

1.4.5.4 Payment Item

0010 Invert Repair Mortar

1.3.6 Structural Plate Arch

1.3.6.1 Payment

Payment will be made for costs associated with the structural plate including, but not limited to, structural plate, keyway grouting, and micropiles, and concrete pile cap, as specified and as shown on the contract drawings. Price shall also include cost associated with temporary stabilization/bracing as required. Price shall include all engineering, design, materials, labor, equipment, and supplies associated with this work.

1.3.6.2 Measurement

Measurement for payment shall be made by the actual length of structural plates installed, including the volume of grout placed. Measurement also includes any concrete required at the transition from the culvert lines to the existing brick lined culvert. The Contracting Officer shall approve all methods and procedures.

1.3.6.3 Unit of Measure

Unit of measure: Linear Foot

1.3.6.4 Payment Items

Item No. 0011 Structural Plate Arch

1.3.7 Headwall

1.3.7.1 Payment

Payment will be made for costs associated with the furnishing and installation in place of concrete materials for headwall at the end of Sulphur Run culvert, not limited to, formwork, ready mix concrete, concrete grouting, etc. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.3.7.2 Measurement

Measurement for payment for installation of headwall shall be based upon the number of headwalls installed as shown on the contract drawings and as accepted by the Contracting Officer.

1.3.7.3 Unit of Measure

Unit of measure: Each

1.3.7.4 Payment Item

0012 Headwall

1.3.8 Geotextile

1.3.8.1 Payment

This work is specified in Section 31 05 19 GEOTEXTILE. Payment will be made for costs associated with placement of geotextile fabric as indicated on the contract drawings. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.3.8.2 Measurement

Measurement for payment shall be by the actual area of geotextile acceptably installed, not including overlaps, based on the surface area of slope covered. All measurements for payment shall be made by or in presence of the Contracting Officer.

1.3.8.3 Unit of Measure

Unit of measure: Square Yard.

1.3.8.4 Payment Item

Item No. 0013 Geotextile With Sand Bedding

Item No. 1004 Streambank Geotextile

1.3.9 Security Fence

1.3.9.1 Payment

This work is specified in Section 32 31 13 CHAIN LINK FENCES AND GATES. Payment will be made for costs associated with acceptable installation of security fence and signage, including all appurtenances and hardware for the execution of this work, as specified and as shown on the contract drawings. Borough of Blairsville will provide the missing gate section. Contractor shall reinstall gate section to working conditions. Price shall include all materials, labor, equipment, and supplies associated with this work.

1.3.9.2 Measurement

Measurement for payment shall be by the actual linear foot of security fence and posts installed as shown on the contract drawings and as accepted by the Contracting Officer.

1.3.9.3 Unit of Measure

Unit of measure: Linear Foot.

1.3.9.4 Payment Item

Item No. 0016 Security Fence

-- End of Section --