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## Part 1 General

### 1.1 Scope

- A. The Bid lists each item of the Project for which payment will be made. No payment will be made for any items other than those listed in the Bid.
- B. Required items of work and incidentals necessary for the satisfactory completion of the work which are not specifically listed in the Bid, and which are not specified in this section to be measured or to be included in one of the items listed in the Bid, shall be considered as incidental to the work. All costs thereof, including Contractor's overhead costs and profit, shall be considered as included in the lump sum or unit prices bid for the various Bid items. The Contractor shall prepare the Bid accordingly.
- C. Work includes furnishing all plant, labor, equipment, tools and materials, which are not furnished by the Owner and performing all operations required to complete the work satisfactorily, in place, as specified and as indicated on the Drawings and Specifications.

### 1.2 Descriptions

- A. Measurement of an item of work will be by the unit indicated in the Bid.
- B. Final payment quantities shall be determined from the documented field measurements. The precision of final payment quantities shall match the precision shown for that item in the Bid.
- C. Payment will include all necessary and incidental related work not specified to be included in any other item of work listed in the Bid.
- D. Unless otherwise stated in individual sections of the Specifications or in the Bid, no separate payment will be made for any item of work, materials, parts, equipment, supplies or related items required to perform and complete the work. The costs for all such items required shall be included in the price bid for item of which it is a part.
- E. Payment will be made by extending unit prices multiplied by quantities provided and then summing the extended prices to reflect actual work. Such price and payment shall constitute full compensation to the Contractor for furnishing all plant, labor, equipment, tools and materials not furnished by the Owner and for performing all operations required to provide to the Owner the entire Project, complete in place, as specified and as indicated on the Drawings.
- F. "Products" shall mean materials or equipment permanently incorporated into the work.

### 1.3 General

- A. No separate payment shall be made for clearing and constructing access roads to sewers.
- B. The cost of moving and reestablishing landscape features, including labor and materials, shall be included in the unit price bid for the item to which it pertains.
- C. No separate payment shall be made for the cost incurred to repair damaged property. This includes concrete or asphalt driveways, except where payment is authorized for Same Trench Sewer Replacement.
- D. Construction Along Highways, Streets and Roadways: No separate payment shall be made for traffic control or maintaining highways, streets, roadways and driveways.
- E. No additional payment will be made for replacement of defective materials.
- F. All costs related to the implementation of the easement and permit stipulations shall be included in the unit price bid for the item to which it pertains.
- G. No separate payment will be made for clean-up and testing. Any cost for labor, materials and equipment required for clean-up shall be included in the unit price bid for the item to which it pertains.
- H. No separate or additional payment will be made for any special or unique method, means, techniques or equipment necessary for the Contractor's compliance with these Specifications, regulatory requirements, permits, laws or regulations which govern this Project.
- I. No separate or additional payment will be made for by-pass pumping or sewer flow control.
- J. No additional payment will be made for restoring concrete lined channels or concrete bridges as noted in the Drawings.

### 1.4 Erosion and Sedimentation Control

- A. No separate payment shall be made for temporary and/or permanent erosion and sedimentation controls or replacement of landscaping disturbed by inspection, replacement or rehabilitation activities. All temporary and/or permanent erosion and sedimentation control costs shall be included in the unit price bid for the item to which it pertains.
- B. No payment will be made for any portion of the Project for which temporary erosion and sedimentation controls are not properly maintained.

## 1.5 Demolish Existing Pump Station

- A. The Contractor shall be paid to demolish the existing pump station as indicated on the drawings. The City of Chattanooga shall be given the opportunity to salvage any equipment or material prior to disposal. Payment shall include all labor, material, equipment, hauling, and disposal

## 1.6 Post-Installation Closed Circuit Television (CCTV) Inspection of Sewers and Service Laterals

- A. Payment will be made at the unit price bid for each pipe diameter and service lateral and should include cleaning of the pipe if required. Quantities shall be determined from field measurements verified in writing by the Engineer.
- B. Measurement for payment for sewers shall be from centerline of manhole to centerline of manhole. Measurement for payment for laterals shall be for lengths authorized by the Engineer.
- C. Payment will be based on the actual footage of pipe inspected and shall include all items necessary to perform the specified work and provide the specified work product.
- D. If any pipe must be re-inspected as requested by the OWNER than it shall be at the contractor's expense.

## 1.7 Pump Station Package, Complete

- A. Payment shall include all labor, materials, and equipment as shown, but not limited to wet well, pumps, valve vault, flow meter, electrical supply, control panel, fencing, stone, and lighting, etc., on the drawings and specifications herein. If no bid item exists or is not addressed in the section, then it shall be included in this bid item.

## 1.8 Wet Well Rehabilitation Coating

- A. Payment shall include all labor, materials, and equipment and will be paid at the unit price per square foot on installed material as described in Section 33 01 30.83.

## 1.9 New Trench Open Cut Gravity and Force Main Sewer Installation

- A. Existing Utilities and Obstructions
  1. Horizontal Conflict: Payments for conflicts with existing utilities shall be made only where additional manholes and/or additional lengths of pipe are approved by the Engineer. Said payment shall be made at the unit prices in the Bid. No other payment will be made for any delay or extra cost encountered by the Contractor due to protection, avoidance or relocation of existing utilities, mains or services or changing the horizontal alignment of the sewer.

2. Vertical Conflict: Where authorized by the Engineer, payment for additional depth of cut required to avoid vertical conflicts shall be made at the unit prices bid for gravity sewer. No payment will be made for relocation of existing utilities.
- B. Location and Grade: No separate payment shall be made for survey work performed by or for the Contractor in the establishment of reference points, bench marks, limits of right-of-way or easement, including their restoration, as well as centerline or baseline points.
- C. Trench Excavation: No separate payment will be made for trench excavation. All costs shall be included in the unit price bid for the item to which it pertains at the appropriate depth.
- D. Sheeting, Bracing and Shoring: No separate payment will be made for providing any sheeting, bracing and shoring.
- E. Dewatering Excavations: All costs of equipment, labor and materials required for dewatering shall be included in the price bid for the item to which it pertains.
- F. Trench Stabilization
1. No payment for trench stabilization shall be authorized until after the trench has been dewatered. If the pipe is installed in an inadequately prepared trench bottom, the Engineer shall notify the Contractor in writing of the deficiency and will not authorize payment for that portion of that length of pipe which was improperly installed.
- G. Bedding and Haunching
1. The unit price bid for pipe for gravity sewer shall include excavation of the trench to the depth below the pipe necessary to provide specified bedding and to lay the sewer to grade.
  2. No additional payment will be made for additional trench depth.
  3. No separate payment will be made for material used to provide specified bedding. The cost of all bedding materials shall be included in the unit price bid for the item to which it relates, except for trench stabilization.
  4. No additional payment will be made for improved bedding required to compensate for over excavation of the trench.
- H. Initial Backfill
1. No separate payment shall be made for initial backfill.
  2. No separate payment shall be made for drying out the initial backfill material in order to meet the compaction requirements.

3. No separate payment shall be made for the adding of moisture to the initial backfill materials in order to meet the compaction requirements.
  4. No separate payment shall be made for providing select material if the insitu material cannot meet the compaction requirements.
- I. Final Backfilling
1. No additional payment will be made for additional material when excavated materials are used.
  2. No separate payment shall be made for drying out the final backfill material in order to meet the compaction requirements.
  3. No separate payment shall be made for the adding of moisture to the final backfill materials in order to meet the compaction requirements.
  4. No additional payment will be made for providing select material if the insitu material cannot meet the compaction requirements.
- J. Additional Material: No separate payment will be made for additional earth or fill materials imported to the Project site.
- K. No separate payment shall be made for detection tape or tracing wire.
- L. No payment will be made for cutting and beveling pipe.
- M. Air Release Valve: Payment shall be at the unit price shown on bid form and shall include all labor, materials, and equipment as described in the contract documents. The air release valve shall be supplied by ARI, APCO Valve Corporation, or Val-Matic.

## 1.10 Sewer Abandonment

- A. Payment shall be at the unit price per linear foot for pipes and per each for manholes. Both shall include all labor, materials, and equipment for the diameter size shown. Quantities shall be determined from field measurements verified in writing by the Engineer.

## 1.11 Pre-cast Concrete Manhole Replacement

- A. Measurement for payment at the unit price for manholes shall be made on a unit quantity basis.
- B. Payment for pre-cast concrete manhole replacement shall include penetrations for influent and effluent pipelines regardless of diameter.
- C. Payment for manhole rehabilitation shall be made at the unit price per vertical foot unit as described in Section 33 01 30.83.

- D. No separate or additional payment will be made for testing (for both pre-cast structure and coating), bedding, connecting pipes to manholes, constructing invert, risers or frame and cover.

## 1.12 Removing and Replacing Pavement

- A. Payment for removing and replacing pavement will be made as a separate item based on the measured quantity replaced at the unit price in the Bid. The unit price bid shall include all costs associated with removing and replacing pavement, including providing select backfill if necessary, traffic control and temporary measures for maintaining traffic. Only those lengths of pavement replacement associated with Same Trench Sewer Replacement or Open Cut Service Lateral Replacement will be eligible for payment.
- B. Payment for removing and replacing pavement will be made only for that length for which the pipeline is constructed underneath the pavement as shown on the Drawings.
- C. Payment for soils testing shall be made from the "soils and concrete testing" cash allowance. No payment shall be made for tests that fail to verify required results.
- D. No additional payment will be made for removing and replacing damaged adjacent pavement.

## 1.13 Restoration

- A. Seeding: Payment will be by the square yard and shall include all labor and materials as described in the contract documents. Quantities shall be determined from field measurements verified in writing by the Engineer.
- B. Sod: Payment will be by the square yard and shall include all labor and materials as described in the contract documents. Sod shall be used where indicated by golf course management. Quantities shall be determined from field measurements verified in writing by the Engineer.

## 1.14 Clean-Up

- A. No payment will be made for any portion of the Project for which clean-up and restoration has not been completed, to the satisfaction of the Engineer and Owner.

## 1.15 Rock Excavation

- A. Payment will be by the cubic yard by the method used as indicated. The unit price bid shall include all labor, materials, equipment, hauling, and removal costs associated with removing rock during excavation.

## 1.16 Cash Allowances

### A. General

1. The Contractor shall include in the Bid Total all allowances stated in the Contract Documents. These allowances shall cover the net cost of the services provided by a firm selected by the Owner. The Contractor's handling costs, labor, overhead, profit and other expenses contemplated for the original allowance shall be included in the items to which they pertain and not in allowances.
2. No payment will be made for nonproductive time on the part of testing personnel due to the Contractor's failure to properly coordinate testing activities with the work schedule or the Contractor's problems with maintaining equipment in good working condition. The Contractor shall make all necessary excavations and shall supply any samples of materials necessary for conducting compaction, density tests, concrete tests, cured-in-place pipe samples and any other samples required for testing.
3. No payment shall be provided for services that fail to verify required results.

- B. Should the net cost be more or less than the specified amount of the allowance, the Contract will be adjusted accordingly by change order. The amount of change order will not recognize any changes in handling costs at the site, labor, overhead, profit and other expenses caused by the adjustment to the allowance.

### C. Documentation

1. Submit copies of the invoices with each periodic payment request from the firm providing the services.
2. Submit results of services provided which verify required results.

### D. Schedule of Cash Allowances

1. Blast Monitoring
2. Utility Conflict Resolution
3. Construction Verification Surveying
  - a. Allow the amount provided in the Bid for construction surveying by an independent surveying firm, selected by the Owner, to perform horizontal and vertical alignment checks at the discretion of the Engineer.
  - b. This allowance is solely for the use of the Engineer for verification of the Contractor's reference points, centerlines and work performed. The presence of this cash allowance in no way relieves the Contractor of the responsibility of installing reference points, centerlines, temporary bench

marks or verifying that the work has been performed accurately.

4. 3-Phase Power to Site

- a. This allowance is solely for the Contractor to pay EPB for the installation of 3-Phase power to the new pump station site. EPB will perform all work related to this task.

## Part 2 Products

(NOT USED)

## Part 3 Execution

(NOT USED)

END OF SECTION