

ADDENDUM No. 2

**MBWWTP SOLIDS PROCESS OPTIMIZATION IMPLEMENTATION
PHASE 2 THICKENER UPGRADES
CONTRACT NUMBER W-16-017-201**

CITY OF CHATTANOOGA, TENNESSEE

The following changes shall be made to the Contract Documents, Specifications, and Drawings:

1. Section 00 41 00

Replace with the attached revised specification.

2. Section 01 22 00

Replace with the attached revised specification.

3. Pre-Bid Meeting Notes

The attached Pre-Bid Meeting Notes shall become part of the Contract Documents.

4. Contract Drawing 01S-06

Insert the following sentence for Key Note No. 8 at the top right of the page.

“Repair eroded concrete surfaces with Sika Repair 224, min. ½” cover above exposed aggregate, vertical extent to be 1'-0” below current waterline where condition is less severe. Do not feather terminations.

January 30, 2017

/s/ Justin C. Holland, Administrator
City of Chattanooga
Department of Public Works

**MBWWTP SOLIDS PROCESS OPTIMIZATION IMPLEMENTATION,
PHASE 2 THICKENER UPGRADES
CONTRACT NUMBER W-16-017-201**

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

City of Chattanooga, Tennessee
Purchasing Department
101 E. 11th Street, Suite G13
Chattanooga, Tennessee 37402

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for period of time after the Bid opening as stated in the Advertisement for Bids, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

<u>Addendum No.</u>	<u>Addendum Date</u>
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating

- to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in SC-4.02 as containing reliable "technical data," and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable "technical data."
- E. Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
 - F. Based on the information and observations referred to in Paragraph 3.01.E above, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
 - G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
 - H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
 - I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
 - J. Where this Bid Form contains the provision for a bid based on a lump sum price, the Bidder shall be responsible for having prepared its own estimate of the quantities necessary for the satisfactory completion of the Work specified in these Contract Documents and for having based the lump sum price bid on its estimate of quantities.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

Item No.	Description	Estimated Qty.	Unit	Unit Price	Total Price
1.	Furnishing all products, materials and equipment and performing all labor necessary to complete and put into operation the Moccasin Bend WWTP Solids Process Optimization Implementation, Phase 2 Thickener Upgrades, including all work shown on the Drawings and/or specified and not included in Items 2 through 9 below, for the total amount of:	Lump Sum			\$
2.	Launder, Weir and Baffle Plate Repair	200	LF	\$	\$
3.	Thickener Tank Wall Repair				
a.	SikaRepair 224 (see Note 1)	9,800	SF	\$	\$
b.	3/4" Shotcrete (see Note1)	9,800	SF	\$	\$
4.	Pump Station Splitter Box Wall Repair with SikaRepair 224	700	SF	\$	\$
5.	Type 1 - Concrete Repair, per Drawing 01S-11 Requirements	600	SF	\$	\$
6.	Type 2 - Concrete Repair, per Drawing 01S-11 Requirements	250	SF	\$	\$
7.	Type 3 - Concrete Crack Repair, per Drawing 01S-11 Requirements	1000	LF	\$	\$
8.	Type 4 - Concrete Repair, per Drawing 01S-11 Requirements	200	SF	\$	\$
9.	Hydroxyl Radical Odor Control System complete in place for Pump Stations No. 1 and 2.	1	LS	\$	\$
10.	Cash Allowances				
a.	Soils and Concrete Testing	ALLOWANCE			\$ 15,000.00
b.	Utility Conflict Resolution	ALLOWANCE			\$ 5,000.00
c.	Construction Verification Surveying	ALLOWANCE			\$ 5,000.00
d.	Structural Steel Repair in Thickener Tanks	ALLOWANCE			\$ 30,000.00
e.	Weir Support Repair (all tanks) and Feed Pipe Support Repair (Tanks 1 and 2)	ALLOWANCE			\$ 70,000.00
f.	Bypass Pumping	ALLOWANCE			\$ 40,000.00

(Note 1) Items 3a and 3b are alternates for the thickener tank wall concrete repair approach. If choosing the Shotcrete approach complete item 3b, while not completing item 3a. SikaRepair 224 is required for the Pump Station Flow Splitter Box Wall Repair, See Item 4.

BID TOTAL, ITEMS 1 THROUGH 10, INCLUSIVE, THE AMOUNT OF _____

_____ DOLLARS (\$_____).

Unit Prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

- A. Statement of Bidders Qualifications
- B. Affidavit of No Collusion by Prime Bidder
- C. Drug-Free Workplace Affidavit
- D. Attestation Regarding Personnel Used in Contract Performance
- E. Certification By Proposed Prime or Subcontractor Regarding Equal Employment Opportunity
- F. Certification Regarding Debarment, Suspension and Other Responsibility Matters

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

9.01 This Bid submitted by:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

Attest: _____
(Notary)

Name (typed or printed): _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____

Attest: _____
(Signature of another Partner)

Name (typed or printed): _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature)

Name (typed or printed): _____

Title: _____
(CORPORATE SEAL)Attest: _____
(Signature of Corporate Secretary)

Name (typed or printed): _____

Date of Qualification to do business in Tennessee is _____

A Joint Venture

Name of Joint Venturer: _____

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of second joint venture partner)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

All Bidders shall complete the following:Bidder's Business address: _____

Phone: _____ Facsimile: _____

Primary Contact: _____

E-mail: _____

Submitted on _____, 201____.

State Contractor License No. _____.

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1015 15th Street N.W., Washington, DC 20005
(202) 347-7474
www.acec.org

American Society of Civil Engineers
1801 Alexander Bell Drive, Reston, VA 20191-4400
(800) 548-2723
www.asce.org

Associated General Contractors of America
2300 Wilson Boulevard, Suite 400, Arlington, VA 22201-3308
(703) 548-3118
www.agc.org

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Part 1 General

1.01 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.

1.02 Descriptions

- A. Measurement of an item of work will be by the unit indicated in the Bid Form.
- 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 the provided unit prices multiplied by final approved quantities and then summing the extended prices to reflect actual approved 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.

1.03 General

- A. No separate payment shall be made for clearing and constructing access roads.
- 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 and parking areas within the plant.
- D. Construction Along Plant Roadways: No separate payment shall be made for traffic control or maintaining plant 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 payment will be made for by-pass pumping, see cash allowance.

1.04 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 Work that needs to be repaired or re-performed due to temporary erosion and sedimentation controls not being properly maintained by the Contractor.

1.05 Item 1 – Work of the Contract Documents

- A. This item consists of furnishing all products, materials and equipment and performing all labor necessary to complete and put into operation the Moccasin Bend WWTP Solids Process Optimization Implementation, Phase 2 Thickener Upgrades, including all work shown on the Drawings and/or specified and not included in items 2 through 9 of the Bid Form (Section 00 41 00). Payment will be made in accordance with the approved Schedule of Values (Section 01 29 73).

1.06 Item 2 – Launder, Weir and Baffle Plate Repair

- A. Payment will be made based on the linear foot unit prices listed in the Bid Form and the total measurements of repair length performed by the Contractor and confirmed by the Engineer.
- B. The work consists of any labor, equipment, materials and incidentals used as necessary to complete the work of repairing the rehabilitated effluent launders by having to remove and replace launder, weir or baffle plate material that has been damaged to the point of not being able to clean, paint, or recondition as approved by the Engineer and the Owner. This primarily consists of “cut and weld patch” type repairs on the existing steel launders, “cut and weld patch” type repairs on the existing FRP weirs and baffles, and coordination with scum equipment and algae sweep equipment installation to confirm that both systems function as specified. The following work is excluded from this pay item and shall be paid under Item 1 - Work of the Contract Documents: removing FRP weirs, cleaning and painting the steel launders, reattaching the existing FRP weirs, and making adjustments to the equipment as necessary to match existing weir elevations and assure proper attachments to the system’s structural supports.

1.07 Item 3 – Thickener Tank Wall Repair

- A. Payment will be made based on the square foot unit prices listed in the Bid Form and the total measurements of approved wall area covered by the repair product. The original (bid) intent is to cover the entirety of each wall with the chosen repair product(s) subject to final quantity directives after inspections by Owner and Engineer.
- B. The work consists of any labor, equipment, materials and incidentals used as necessary to complete the work of rehabilitating the entirety of the vertical wall surfaces of thickener tanks 1, 2, 3, 4 and 5 as described in the Contract Documents.
- C. This work will be coordinated with the work of repairing and painting the launder supports in the thickener tanks such that wall repair will be performed while the supports are removed for repair and/or painting and with the supports being replaced over the newly-repaired wall.
- D. Item 3a: This repair option is to be performed using SikaRepair 224 as specified in Section 03 35 00 and as supplemented by Contract Drawing 01S-12. If the Contractor proposes the SikaRepair 224 method do not complete Item 3b.
- E. Item 3b: If the Contractor chooses to bid the alternate Shotcrete for tank wall repairs the unit cost and total cost for shotcrete is to be provided in Item 3b while not providing a cost for Item 3a.

1.08 Item 4 – Pump Station Splitter Box Wall Repair

- A. Payment will be made based on the square foot unit prices listed in the Bid Form and the total measurements of approved wall area covered by the repair product as specified in the Contract Documents.
- B. The work consists of any labor, equipment, materials and incidentals used as necessary to complete the work of repairing (coating) the vertical wall surfaces of inner walls of the flow splitter boxes for each pump station as described in the Contract Documents.

1.09 Item 5 – Type 1 - Concrete Repair, per Drawing 01S-11 Requirements

- A. Payment will be made based on the square foot unit prices listed in the Bid Form and will be based on measurements of the concrete repair approved by the Engineer, performed by the Contractor and confirmed by the Engineer.
- B. The work consists of any labor, equipment, materials and incidentals used as necessary to complete Concrete Patch / Spot Repair, as described on Drawing 01S-11. Repair shall be quantified by the square foot of wall coverage for the type of repair that is used – Type 1 is ½-inch average thickness. This item is to be used for patching of existing wall defects, with the intent to feather the repair to match the existing concrete surface. In some cases, Sika Repair 224 or Shotcrete may be installed over top of this repair, however locations within the pump station buildings would be standalone repairs.
- C. Final pay quantity may not be 100% of the quantity in the bid. Final quantities executed are dependent on inspection by the Engineer of all Thickener Tanks when drained and approval of Engineer to execute the repair.

1.10 Item 6 – Type 2 - Concrete Repair, per Drawing 01S-11 Requirements

- A. Payment will be made based on the square foot unit prices listed in the Bid Form and will be based on measurements of the concrete repair approved by the Engineer, performed by the Contractor and confirmed by the Engineer.
- B. The work consists of any labor, equipment, materials and incidentals used as necessary to complete Concrete Patch / Spot Repair, as described on Drawing 01S-11. Repair shall be quantified by the square foot of wall coverage for the type of repair that is used – Type 1 is 1-inch average thickness. This item is to be used for patching of existing wall defects, with the intent to feather the repair to match the existing concrete surface. In some cases, Sika Repair 224 or Shotcrete may be installed over top of this repair, however locations within the pump station buildings would be standalone repairs.

- C. Final pay quantity may not be 100% of the quantity in the bid. Final quantities executed are dependent on inspection by the Engineer of all Thickener Tanks when drained and approval of Engineer to execute the repair.

1.11 Item 7 – Type 3 - Concrete Crack Repair

- A. Payment will be made based on the linear foot unit prices listed in the Bid Form and will be based on measurements of crack length, regardless of the crack width, performed by the Contractor and confirmed by the Engineer.
- B. The work consists of any labor, equipment, materials and incidentals used as necessary to complete crack repair work as defined in specification section 03 35 00 and shown on Drawing 01S-11. This includes the work of preparing the crack to receive repair compound, addition of reinforcing material (rebar or mesh) if required, and application of a surface protective coat if required. The work may be performed on thickener tank concrete or pump station concrete (interior walls, interior and exterior stairs, and flow splitter box repair at a minimum, and at other locations where concrete cracking within the Gravity Thickener Facility requires repair).

1.12 Item 8 – Type 4 - Concrete Repair, per Drawing 01S-11 Requirements

- A. Payment will be made based on the square foot unit prices listed in the Bid Form and will be based on measurements of the concrete repair approved by the Engineer, performed by the Contractor and confirmed by the Engineer.
- D. The work consists of any labor, equipment, materials and incidentals used as necessary to complete Concrete Patch / Spot Repair, as described on Drawing 01S-11. Repair shall be quantified by the square foot of wall coverage for the type of repair that is used – Type 4 is 3-inch average thickness. This item is to be used for patching of existing wall defects, with the intent to feather the repair to match the existing concrete surface. In some cases, Sika Repair 224 or Shotcrete may be installed over top of this repair, however locations within the pump station buildings would be standalone repairs.
- E. Final pay quantity may not be 100% of the quantity in the bid. Final quantities executed are dependent on inspection by the Engineer of all Thickener Tanks when drained and approval of Engineer to execute the repair.

1.13 Item 9 – Hydroxyl Radical Odor Control System

- A. Payment will be made on a lump sum basis for the Hydroxyl Radical Odor Control System, including the following items:
 - a. One Vapex Environmental Technologies (1) Nano and One (1) Micro hydroxyl radical based odor control unit or approved equal, with all appurtenances as specified in Section 46 24 25.
 - b. Hotbox enclosures
 - c. Concrete pads

- d. FRP plate installed over the splitter boxes
 - e. Modifications made to the splitter boxes to accommodate the FRP plates
 - f. Potable water supply to the odor control units
 - g. Power supply to the odor control units.
- B. This item consists of furnishing all products, materials and equipment and performing all labor necessary to complete and put into operation the Moccasin Bend WWTP hydroxyl radical odor control improvements, including all work shown on the Drawings and/or specified and not included in items 1 through 5 of the Bid Form (Section 00 41 00). Payment will be made in accordance with the approved Schedule of Values (Section 01 29 73).

1.14 Item 10 - Cash Allowances

A. General

1. The Contractor shall include in the Bid Total all allowances stated in the Bid Form. There are two types of allowances, as described below.
 - a. *Allowances for Services provided by Owner-Selected Firms.* 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.
 - b. *Contractor-Performed Services Allowances.* These allowances are for items that cannot be quantified in the sludge thickener tanks prior to the Contract start. The Contractor will perform this work and bill the task the same as any other construction task, but will have to provide more detailed documentation on what work was performed and will have to coordinate more closely with site inspectors while performing the work. Further information is provided in the Schedule of Cash 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 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 for Services Provided by Owner-Selected Firms

1. Item 10a - Soil and Concrete Testing: Allow the amount provided in the Bid Form for the services of soils and concrete testing laboratories to verify soils conditions and for the testing of concrete cylinders for poured in place concrete.
2. Item 10b – Utility Conflict Resolution: Allow the amount provided in the Bid Form for the services of outside utility companies in the event that there is a utility conflict uncovered during construction that requires consultation from an outside utility company to obtain conflict resolution. Physical work performed by contractor, under guidance of the outside utility company, may be included in this allowance if approved by the Engineer and Owner.
3. Item 10c - 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, and work performed. The presence of this cash allowance in no way relieves the Contractor of the responsibility of installing reference points, temporary bench marks or verifying that the work (in particular but not limited to weir elevations in all five tanks) has been performed accurately.

E. Schedule of Cash Allowances for Contractor Performed Services

1. Item 10d – Structural and Miscellaneous Steel Repair to Thickener Tank Center Columns, Bridges/Walkways, and Rake Arms: any labor, equipment, materials and incidentals used as necessary to complete repair work on structural steel within the thickener tanks. Work will be identified by an initial inspection of each tank by Contractor and Engineer after tank is drained and cleaned. Contractor will prepare an estimate to perform the entire repair work within the tank and submit to Engineer for review. Contractor will not begin repair work until written authorization is provided by the Engineer. The following work is excluded from this pay item and shall be paid under Item 1 - Work of the Contract Documents: painting of the repaired steel.
2. Item 10e – Weir and Pipe Support Repair in Thickener Tanks: any labor, equipment, materials and incidentals used as necessary to complete repair work on the weir supports for all thickener tanks (1 through 5) or the influent feed pipe support in thickener tanks 1 and 2. Work will be identified by an inspection

of components in each tank after the tank is drained. Contractor will prepare an estimate to perform the entire repair work within the tank and submit to Engineer for review. Contractor will not begin repair work until written authorization is provided by the engineer. Contractor's estimate will include all necessary coordination with the work of thickener tank wall repair (item 4 of this section). The following work is excluded from this pay item and shall be paid for under Item 1 – Work of the Contract Documents: Painting of the repaired steel.

3. Item 10f, Allowance for Bypass Pumping: any labor, equipment, materials and incidentals used as necessary to provide bypass pumping when (1) working on the influent sludge line valve vault relocations; (2) working on the flow splitter boxes, either as part of weir gate replacement or repair and coating of the splitter box concrete surfaces; (3) other work as proposed by the Contractor. If the Contractor proposes to implement bypass pumping, Contractor will disclose this at the preconstruction meeting. Contractor will prepare a work plan, with cost estimate based on costs for task mobilization, demobilization, and hourly usage rate, to perform the bypass pumping work within the tank and submit to Engineer for review. Work plan will be submitted to the City a minimum of 30 days prior to the start of the work activity. Contractor will not begin work of this task until written authorization is provided by the Engineer; said authorization will acknowledge that work plan has been reviewed by the City and the Engineer and that the City and Engineer are in general agreement with the means and methods proposed by the Contractor.

END OF SECTION



Pre-Bid Meeting Notes

Project: MBWWTP Solids Process Optimization Implementation Phase 2 Thickener Upgrades
Contract W-16-017-201

Subject: Pre-Bid Meeting

Date: Thursday, February 1, 2018, 3:00 PM

Location: MBWWTP Training Center

Attendees: See attached sign-in sheet

The following items were discussed:

1. Introductions

- a. Owner – City of Chattanooga
- b. Program Manager – Jacobs
- c. Engineer – HDR
 - i. Justin Bolender, Construction Administration (CA)
 - ii. Bruce DiFrancisco, CA
- d. TDEC State Revolving Fund
- e. Southeast Tennessee Development District
 - i. Marcy Cole
Project Admin Assistant
mcole@sedev.org
423-424-4238

2. Project Scope/Description

- a. The project consists of repair, rehabilitation and replacement work of the Gravity Thickener System at MBWWTP including work on two thickened sludge pump stations, five thickener tanks and two three-way valve boxes. Process, Mechanical, Structural, HVAC, Architectural, Electrical, and Instrumentation work is included in the project.
- b. A more detailed project description is found Section 00 11 16 Advertisement for Bids

3. Bid Documents & Bidding Requirements

- a. Refer to Section 00 21 13 Instructions to Bidders
- b. Purchase Bids from 8:00 a.m. to 4:30 p.m., Monday through Friday, at the City of Chattanooga Purchasing Department, 101 East 11th Street, Suite G13, Chattanooga, TN 37402, phone (423) 757-5184, fax (423) 757-0949.
- c. Cost of Contract Documents is \$100 per set. No part of the purchase will be refunded for any reason.
- d. Bid Bond in the amount of 5% of Bid with Surety licensed to do business in TN and listed in U.S. Treasury Circular 570.
- e. No Bid withdrawn within 120 calendar days of receipt of Bids.
- f. Section 00 45 77 – Contractor's Identification must be completed, with one copy attached to the bid package, and one copy inside the bid package.

4. Qualifications

- a. Refer to Section 00 21 13 Instructions to Bidders, and Section 00 45 13 Statement of Bidder's Qualifications
 - i. Bidder shall maintain permanent place of business
 - ii. Must be licensed by State of Tennessee to perform work under contract
 - iii. Bidder shall demonstrate adequate construction experience and sufficient equipment resources to properly perform work.
 - iv. Owner reserves the right to reject any bid if bidder fails to satisfy qualifications

5. Bidder Questions and Addenda

- a. Use Section 00 21 14 – Request for Bidder Information. Submit by fax, email or mail to City of Chattanooga Purchasing Department. bidinfo@chattanooga.gov.
- b. Questions received less than ten (10) days prior to the date for opening the Bids may not be answered.
- c. Required to purchase set of plans and specifications to get on the plan holders list. Only bidders on plan holders list will receive addenda; which must be acknowledged in the BidForm.

6. Bid Opening

- a. Date/Time – Thursday, March 1, 2018, 2:00 PM
- b. Location – City of Chattanooga Purchasing Department, 101 East 11th Street, Suite G13, Chattanooga, TN

7. Contract Completion Time

- a. Substantial Completion within 365 Calendar Days of Notice To Proceed
- b. Final Completion within 395 calendar days of Notice To Proceed

8. Liquidated Damages

- a. \$500.00 for each day after Substantial Completion if work is deemed to not be substantially complete, and \$500.00 for each day after Final Completion if Contractor has not completed the work.

9. Project Specific Requirements

- a. Contractor Work Area Limits – Areas are clearly shown on the site plan of construction drawings.
- b. Coordination with other ongoing projects: Contractor is expected to carry out operations in cooperation with other capital and maintenance projects at the site. Regular progress meetings will discuss other operations and how items will need to be coordinated
- c. Isolation of Tanks / Maintenance of Operation:
 - i. The gravity thickener system operates on two separate operation trains
 1. Train 1 - Thickened Sludge PS (TSPS) No. 1 operates tanks 1 and 2
 2. Train 2 - TSPS No. 2 operates tanks 3, 4 and 5
 - ii. Only one tank in each train can be off-line at any given time.
 - iii. Train 1 typically operates only one tank at a time
 - iv. Train 2 typically operates only two tanks at a time
 - v. Pump replacement: At least one pump must be operational at any given time
- d. Structural repair:
The bid form (Section 00 41 00) and the measurement and payment (Section 01 22 00) specifications are being revised via addendum including with this document.

10. Site Access

- a. All work to be completed shall be on the City of Chattanooga's property.

- b. Access to MBWWTP must be coordinated and approved through plant staff.

11. Safety

- a. Refer to Section 00 72 00 and 00 73 00 General Conditions and Supplemental Conditions
- b. Safety Plan must be submitted and approved before any field work is started.

12. Work Hours

- a. Work Hour Restrictions – Work hours shall be 7:00 a.m. to 6:00 p.m., Monday through Friday unless City has more specific restrictions.
- b. Contractor can request to work outside these hours, but must get approval from the City prior to any work being performed.

13. DAVIS-BACON Act

- a. This project is being funded by a State Revolving Fund loan. The loan recipient must be in compliance with all applicable requirements of the Davis-Bacon Act.
- b. Contact: Marcy Cole –Southeast Tennessee Development District, mcole@sedev.org, 423-424-4238

14. Allowances

- a. 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.

15. Other Items

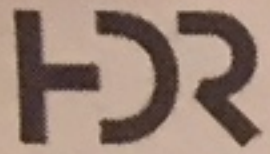
- a. It is the Contractors responsibility to repair any existing utilities that are damaged during construction.
- b. The items discussed here today are not intended to be all-inclusive. It is the Contractor's responsibility to review the Contract Documents and comply with all provisions.

16. Contractor Questions

- a. No specific questions were addressed during the meeting. It is encouraged for contractors to submit questions directly to City Purchasing.

17. Site Visit Following Meeting

- a. A brief site visit was held after the meeting .



Meeting Attendance

Project: W-16-017-201 Phase 2 Thickener Upgrades

Date: Thursday, February 01, 2018

Subject: Pre-Bid Meeting

Location: MBWWTP Training Facility

Attendee & Title	Organization	Telephone	Email
Bruce DiFrancisco, CA	HDR	615-515-3667	bruce.difrancisco@hdrinc.com
Justin Bobender, CA	HDR	423-414-3559	justin.bobender@hdrinc.com
Jace Chaffin, P.M. - G.C.	J. Cumby	931-526-5158	bids@jcumbyconstruction.com
Marcy Cole	SETAD	423-424-4238	mcole@setad.org
Brent Cunningham	Jacobs	423-710-5027	brent.cunningham@jacobs.com
Randy Taylor Plant Engr.	CITY	423-713-7509	rtaylor@chattanooga.gov
Spotter (STEVE PORTER)	CUL	423-598-1468	spotter@chattanooga.gov
Debbie Talley	COC	423-643-7230	dtalley@chattanooga.gov
John Lyons	city	423-421-4668	jlyons@chattanooga.gov
Randy Thebo	city	423-313-4028	rthebo@chattanooga.gov
Charles L. Thomas Sr.	City	423-643-7422	cthomas@chattanooga.gov