CITY OF GEORGETOWN, SOUTH CAROLINA
WTP FLOC/SED BASIN NO. 2
ADDENDUM NO. 1
EDA # 04-79-07777
COG PROJECT # 1606
December 8, 2022

TO ALL BIDDERS:

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated November 1, 2022 and all previous Addenda.

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

Below are changes, additions, and clarifications (questions/answers) to the bid documents for this project.

SPECIFICATIONS

SECTION 00 31 10, BID FORM, delete section in its entirely and replace with the attached Specification Section: SECTION 00 31 10 BID FORM

Add the attached Specification Section: SECTION 40 05 59 STAINLESS STEEL SLIDE GATES

SECTION 46 41 35, FLOCCULATOR EQUIPMENT, Article 1.3 ACCEPTABLE MANUFACTURERS, A., add the following:

"4. Hayward Gordon"

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.1 INCLINED PLATE SETTLERS, A. 3., add the following:

"Maximum weir loading, gpd/ft 20,000 (at design flow)"

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.1 INCLINED PLATE SETTLERS, A. 4. c., delete the following words:

"helical flow"

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.1 INCLINED PLATE SETTLERS, C., fifth (5th) paragraph, add the following sentences at the end of the paragraph:

"Alternately, each plate shall be equipped with an integral Type 304 stainless steel top flow control device to ensure that there is an even flow distribution across the entire surface area of the plate. The manufacturer shall provide a Registered Professional Engineer stamped report from a third-party testing laboratory in compliance with ASTM E529-94, which proves that a single top flow control device does not experience deflection greater than 3/16" at the midspan with a 300 lb. point load applied. The top flow control device shall not experience any buckling, permanent deformation, or yielding."

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.1 INCLINED PLATE SETTLERS, C., seventh (7th) paragraph, add the following sentences at the end of the paragraph:

"Alternatively, manufacturers utilizing 26 gauge, T-304 stainless steel materials shall submit to the Engineer for approval a Registered Professional Engineer stamped report from a third-party testing laboratory in compliance with ASTM E330 and provide details of how the plate systems are tested including details of how the plates are supported during the test."

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.1 INCLINED PLATE SETTLERS, D., first (1st) paragraph, add the following sentences:

"After exiting the plates, water shall travel no more than ½ of a plate width to reach an effluent trough. Effluent troughs shall be of the dual side loaded design and be located on both sides of the plate settler frame assembly."

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.1 INCLINED PLATE SETTLERS, D., second (2nd) paragraph, delete the last sentence and replace with the following:

"Weirs shall be capable of adjustment with or without bolting."

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.2 HOSELESS SLUDGE COLLECTOR, E. 2., delete the first sentence and replace with the following:

"Each hoseless collector assembly shall consist of four sludge collection pipes each equal to half the width of the basin with helical flow orifices or flow balancing diagonals which are, in turn, connected to a center pipe which carries the sludge to the horizontal telescoping pipe sludge conduit."

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.2 HOSELESS SLUDGE COLLECTOR, E. 4., delete in its entirety and renumber accordingly.

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.3 HELICAL FLOW DIFFUSERS, change to:

"2.3 INLET DIFFUSERS"

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.3 HELICAL FLOW DIFFUSERS, D., first (1st) paragraph, delete the following words:

"helical flow"

SECTION 46 43 76, INCLINED PLATE SETTLERS AND HOSELESS SLUDGE REMOVAL SYSTEM, Article 2.3 HELICAL FLOW DIFFUSERS, D., fourth (4th) paragraph, delete the paragraph and replace with the following:

"Flow exiting the diffuser shall be approximately 25% of the velocity at the opening port."

END OF SPECIFICATIONS

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QUESTIONS AND ANSWERS

Responses to Questions received as of 2:00 PM EST, December 6, 2002 are being provided with this addendum for informational purposes only and will not be considered as part of the Contract Documents.

Q1: How is the term "subcontractor" defined in the specifications? Would a manufacturer's representative be considered a subcontractor?

A1: Subcontractors are defined in the Specifications, Section 00 70 00 GENERAL CONDITIONS and Section 00 80 00 SUPPLEMENTARY CONDITIONS, EDA CONTRACTING PROVISIONS FOR CONSTRUCTION PROJECTS, and must be registered in the federal System for Award Management (SAM).

Q2: Will the City provide a contact for licensing and what permits does the contractor need to obtain prior to beginning work?

A2: The City's Finance Department provides licensure, and the Application for Business and Professional License can be found on the City's website. The City's website provides contact information for each department.
City Building Permits are required and shall be obtained by the General Contractor. Building Permit application and fee schedule can be found on the City's website, along with contact information for the Planning & Community Development Department. The City has obtained SCDHEC and OCRM Permits which are included in Appendix B of the Contract Documents.

Q3: Will there be special inspections associated with any of the work, in particular, the piling and foundation construction?

A3: Yes, special inspections will be performed for the piling and structural concrete work associated with the Flocculation/Sedimentation Basin No. 2 under a Cash Allowance identified in the Bid Form.

Q4: Will the City release the budget for the project?

A4: The approved EDA grant budget is $4,255,000.

Q5: Please confirm if a SC General Contractor license with the WP classification is required to bid this project.

A5: Confirmed.

Q6: Please provide specifications for the sluice gates on page EN-1, including material type, operation, and acceptable manufacturers.

A6: See Specification Section 40 05 59 in this addendum.

Q7: Is stockpiling excavated dirt allowed on site at the treatment plant? If so, where can it be stockpiled?

A7: Soil material can be stockpiled temporarily onsite south of the flocculation/sedimentation basin during construction. Any excess material must be removed offsite at the Contractor's expense, and the area restored to pre-construction conditions. Contractor shall submit plan for Engineer and Owner approval at the Pre-Construction Meeting.

Q8: Can the contract duration of 360 days be extended to account for the long lead time items like ductile iron pipe?

A8: At this time the contract cannot be extended due to the EDA grant scheduling requirements. Should the Contractor demonstrate that material long-lead items impact the critical path schedule, the Engineer and Owner will consider a time extension in accordance with the contract documents. Contract time extensions will require Engineer, Owner and EDA review and approval.

Q9: Have any additional manufacturers been approved for the flocculators or the plate settlers?

A9: See Addendum No. 1.

Q10: Plans do not have a drawing for the 12" square prestressed concrete piles. Please provide a drawing with a pile design.

A10: The contract documents indicate that the piles are to be designed by the precast, prestressed concrete pile supplier. Refer to Specifications Section 03 50 00 Precast, Prestressed Concrete Piles and Drawing S-1, General Notes, A. Foundations.

Q11: The geotechnical report suggests only one pile be driven and monitored with a pile driving analyzer however in the project manual, section 03-50-00, calls for Static Load Testing, Dynamic Testing, and Rapid Load Testing. What type of testing is required, how many piles tested, and which ones.

A11: Testing shall be conducted as specified in Section 03 50 00 Precast, Prestressed Concrete Piles at the test pile locations indicated on Drawing S-2.

Q12: What length of pile should the contractor use for bidding? Geotechnical report suggests 45' is this correct?

A12: See Specification Section 00 31 10 Bid Form attached to this addendum.

Q13: What is the rated energy for the pile hammer?

A13: Refer to the contract documents, including Drawing S-1, General Notes, Specification Section 03 50 00 Precast, Prestressed Concrete Piles and Appendix (Geotechnical Report).

Q14: Please provide more details on the pre-drilling requirements for the piling.

A14: Predrilling may be required based on vibration monitoring. Refer to the contract documents, including Drawing S-1, General Notes, Specification Section 03 50 00 Precast, Prestressed Concrete Piles and Appendix (Geotechnical Report).

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Q15: Sheet S-1 of the drawings calls out damproofing, waterproofing, and surface coatings in the civil drawings. What damproofing, waterproofing, painting, and surface coatings are required and where?

A15: No surface coatings are required for the concrete surfaces. Finish concrete in accordance with Specification Section 00 30 00 Cast-In-Place Structural Concrete.

Q16: Is stone required under the basin foundation?

A16: Refer to the contract documents, including Specification Section 00 30 00 Cast-In-Place Structural Concrete and Appendix (Geotechnical Report).

Q17: On sheet C-501 section 2, Sed. Basin No. 2 tie-in, can this connection be done by valving off pipe or will bypass pumping be needed?

A17: Refer to Specifications Section 01 11 00 Project Requirements which addresses modifications and connections to existing settled water piping.

Q18: How long can the existing basin be taken out of service to make connections?

A18: Refer to Specifications Section 01 11 00 Project Requirements regarding any interruptions and requirements for existing facility operations and sequencing. Connections that interrupt the existing facility operations must be coordinated with the Owner in advance and can generally be performed at night when the facility is not in operation.

END OF QUESTIONS AND ANSWERS

W. K. Dickson & Co., Inc.
SC Certificate of Authorization No. C00177

SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. C00177
CERTIFICATE OF AUTHORIZATION

SEAL

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 23253
12-09-22
WILLIAM H. YOUNG

William H. Young, PE
Project Manager

Bidder Must Acknowledge Receipt of this Addendum on Bid Form

CITY OF GEORGETOWN, SOUTH CAROLINA

SECTION 00 31 10
BID FORM

WTP FLOC/SED BASIN NO. 2

Date: _____
Project No.: 1606

PROPOSAL OF _____, doing business as a corporation / a partnership / an individual (Strike out inapplicable terms), with its principal office in the City of _____, County of _____, State of _____, (hereinafter called "Bidder").

TO: City of Georgetown, SC

Gentlemen:

The Bidder, in compliance with your invitation for bids for the **WTP Floc/Sed Basin No. 2,** having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

The bidder hereby agrees to commence work under this contract on or before a date to be specified in written "Notice to Proceed" of the Owner and to fully complete the project within **360 consecutive calendar days** thereafter as stipulated in the specifications. Bidder further agrees to pay as liquidated damages the sum of **$1,000 for each consecutive calendar day** thereafter as hereinafter provided in Paragraph 19 of the General Conditions.

The plans, specifications, and addenda are complementary of each other. What is called for by one shall be as binding as if called for by all. If a conflict between any of the above is discovered by the contractor, the problem shall be referred to the Engineer as soon as possible for resolution by the Engineer. Should a conflict occur which is not resolved before bid time and/or is necessary to comply with mandatory requirements (i.e., codes, ordinances, etc.), it shall be the contractor's responsibility to price and bid the more expensive method.

Bidder acknowledges receipt of the following addendum:

No: _____ Dated: _____

No: _____ Dated: _____

No: _____ Dated: _____

Bidder agrees to perform the work as described in the specifications and shown on the plans to furnish all products, materials and equipment and performing all labor necessary to complete the WTP Floc/Sed Basin No. 2 for the following unit or lump sum (LS) prices:

No.	Description	Qty.	Unit	Unit Price ($)	Cost ($)
1	Mobilization and General Conditions	1	LS		
2	Sitework (Excavation and Grading)	1	LS		
3	Site Piping and Valves	1	LS		
4	Erosion Control and Grassing	1	LS		
5	Sidewalks and Paving	1	LS		
6	Foundation Piles (104 Piles at 46 ft below existing grade)	1	LS		
7	Cast-in-Place Concrete Structure	1	LS		
8	Stairs, Metal Platforms, and Handrails	1	LS		
9	Painting and Coatings	1	LS		
10	Flocculation Basin Sluice Gates	1	LS		
11	Flocculation Basin Mixers	1	LS		
12	Sedimentation Basin Plate Settler System	1	LS		
13	Sedimentation Basin Sludge Collector System	1	LS		
14	Sludge Metering Station	1	LS		
15	Chemical Junction Boxes and Piping	1	LS		
16	Electrical	1	LS		
17	Equipment Allowance: Controls and SCADA System Modifications	1	LS	$ 133,715.87	$133,715.87
18	Cash Allowance: Soils, Concrete and Pile Testing and Special Inspections	1	LS	$ 20,000.00	$ 20,000.00
19	Additional Pile Length (over 46 ft, if ordered by Engineer)	100	LF		
	TOTAL BID AMOUNT INCLUDING ALLOWANCES				

Amounts shall be shown in both words and figures. In case of discrepancy, the amount in words shall govern.

Base Bid including Allowances Lump Sum Amount of:

_____ Dollars

($_____)

The lump sum price indicated above shall include all labor, materials, equipment, overhead, profit, insurance, taxes, business license, construction permit fees, etc., to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part of.

The Bidder declares that he/she understands that the quantities shown in the Proposal are subject to adjustment by either increase or decrease and that should the quantities of any of the items of the work be increased, the undersigned proposed to do the additional work at the unit prices stated herein, and should the quantities be decreased, he also understands that payment will be made on actual quantities at the unit price bid, and will make no claim for anticipated profits for any decrease in the quantities and that actual quantities will be determined upon completion of the work, at which time adjustment will be made to the contract amount by direct increase or decrease.

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 90 calendar days after the scheduled closing time for receiving bids.

Upon receipt of written notice of the acceptance of this bid, Bidder will execute the formal contract attached within 10 days and deliver a Surety Bond or Bonds as required by Paragraph 30 of the General Conditions. The bid security attached in the sum of

_____ Dollars

($_____) is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

By submission of this bid, each bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid, with any other bidder or with any competitor.

[SEAL – (If bid is by a corporation)]

Respectfully submitted:

BY: _____

_____
(Print Name)

_____
(Title)

_____
(Business Address)

_____
(Email)

_____
(Telephone)

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SECTON 40 05 59
STAINLESS STEEL SLIDE GATES

PART 1 GENERAL

1.1 SCOPE

A. Furnish all labor, materials, equipment and incidentals required to complete and make ready for operation, low leakage, stainless steel slide gates complete with slides, frames, operating stem and operator as shown on the Drawings and as specified herein.

1.2 DESIGN REQUIREMENTS

A. Slide gates shall be heavy duty, corrosion resistant and reinforced as required for a maximum deflection under the design head of not more than 1/360 of the span of the gate. Gates shall be flat back wall mounted or embedded as shown on the Drawings, rising stem type. Gates and operators shall be suitable for installation in a water treatment plant with high chlorine concentrations and low pH coagulants. Slide gates as specified herein shall meet the leakage rates for sluice gates as specified in AWWA C501.

1.3 SUBMITTALS

A. Complete shop drawings and engineering data shall be submitted to the Engineer for approval in accordance with Section 01 34 00 of these Specifications.

B. Operating and maintenance data shall be furnished in accordance with Section 01 70 00 of these Specifications.

1.4 STORAGE AND PROTECTION

Gates and all associated accessories shall be stored and protected in accordance with the Manufacturer's requirements.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Slide gates shall be manufactured by Waterman Industries, Whipps, Inc., or Golden Harvest, Inc.

2.2 MATERIALS AND CONSTRUCTION

A. Fabricated Slide Gates

1. All slide gate parts, including lift, shall be designed for heads shown on the Drawings, with a minimum safety factor of 5 with regard to tensile, comprehensive and shear strengths.

2. Gate slides shall be fabricated from ASTM A 276, Type 304L stainless steel plate, minimum ¼-inch thickness and reinforced with structural shapes sized to withstand the specified seating or unseating heads. Replaceable polymer seating/sliding strips shall be provided around the opening, either on the slide or frame, to ensure the opposing sealing surfaces are of dissimilar materials creating a low coefficient of friction in gate operation. The slides shall be provided with a pocket for attaching the stem. The pocket shall be attached to the slide by welding and shall be capable of taking the full thrust developed during normal gate operation.

3. The gate frame shall be constructed of stainless steel meeting the requirements of ASTM A 276, Type 304L stainless steel, assembled by welding to form the waterway opening. The gate frame shall form guides for the slide and holes shall be provided for anchor bolts. The angle frame shall be sufficiently long to retain at least one-half of the vertical height of the slide in the fully open position. The frame and gate shall be suitable for attaching to a concrete wall or embedded in concrete as shown on the Drawings.

4. A rubber or neoprene seal, suitable for extended use in water containing chlorine and chloramines, shall be securely fastened to the bottom cross member of the frame with a retainer and threaded fasteners. The top surface of the seal shall be flush with the invert of the gate opening for self-contained gates. Channel gates shall have flush bottom seals. Additional seals shall be provided on the sides and top of the gate frame to satisfy the leakage requirements for the heads shown. All seals shall be replaceable without removing gate frame from wall.

5. Fasteners: All anchor bolts, assembly bolts and nuts shall be of ASTM 193, 18-8 stainless steel, or ASTM A 276, Type 304 stainless steel, and of ample section to safely withstand forces created by operation of the gate. Quantity and size shall be recommended by the manufacturer. Anchor bolts shall be furnished with two nuts each to attach gates to concrete. Fasteners shall conform to the requirements of ASTM A 193, Grades B8MN or B8MNA and ASTM A 194, Grade 8M or 8MA.

6. Slide gates shall be of the sizes and have a seating and unseating head as shown on the Drawings.

B. Stems

1. Operating stems shall be of size to safely withstand without buckling or distortion, the stresses induced by normal operating forces. The stems shall be designed to transmit, in compression, at least twice the rated output of the floor stand or bench stand with 40-pound effort on the crank or handwheel.

2. The threaded portion of the stem shall have machined cut threads of the Acme type.

3. Stems of more than one section shall be joined by bronze couplings, threaded and keyed or bored and pinned to the stems. All threaded and keyed couplings of the same size shall be interchangeable.

4. Manually operated rising stem gates shall be provided with an adjustable, bronze stop collar

on the stem above the floor stand lift nut.

5. All stems shall be fabricated from Type 304 Stainless steel and shall not be less than 1-1/2-inches in diameter.

6. Provide a clear, plastic stem cover with mylar position indicator strip.

C. Manual Operator Floor Stands

1. Manual operation shall be crank-operated floor stands as shown on the Drawings. Operators shall have either a single or double gear reduction depending upon the lifting capacity required and shall be provided with a threaded, cast bronze lift nut to engage the operating stem.

2. Tapered roller bearings or ball thrust bearings shall be provided above and below a flange on the operating nut to support both opening and closing thrusts.

3. Floor stands shall operate the gates with not greater than 30 pound pull on the cranks or handwheel. Gears shall be steel or cast iron with machine cut teeth designed for smooth operation. The pinion shafts on crank-operated floor stands, either single or double, shall be supported on tapered roller bearings or needle bearings. All components shall be totally enclosed in a cast iron case and cover. Positive mechanical seals to retain lubricant and to exclude moisture and dirt, shall be provided on the operating nut and the pinion shafts where they extend from the cast iron case or gear box. Lubricating fittings shall be provided for the lubrication of all gears and bearings.

4. The removable crank shall be cast iron with a revolving brass grip. Floor stands shall include a cast iron pedestal design to position the input shaft approximately 48-inches above the operating floor. Pedestals shall be standard or offset type, provided where shown on the Drawings.

PART 3 PRODUCTS

3.1 INSTALLATION

A. Slide gates shall be installed in accordance with the installation manual furnished by the gate manufacturer.

B. Slide gate frames and plates shall be checked, prior to installation, for projections or warpage that would promote excessive leakage. Defective gates and plates shall be removed and replaced.

C. Slide gate frames shall be installed true to the lines and elevations shown and accurately aligned. Frames shall be internally braced and adequately supported during concrete placement and/or installation.

3.2 INSPECTION AND TESTING

Following installation, operating tests will be performed to demonstrate to the Engineer that all slide gates will perform in a satisfactory manner. Leakage tests shall be performed on each gate to the standards listed above. The Contractor shall make, at the Contractor's expense, all necessary modifications, changes and/or adjustments required to ensure satisfactory operation.

3.3 FIELD PAINTING

All equipment shall be cleaned and painted in accordance with the Manufacturer's recommendations.

3.4 CLEANING

Prior to acceptance of the work of this Section, thoroughly clean all installed materials and related areas.

END OF SECTION