

ADDENDUM NO. 1 TO CONTRACT NO. 14-014 GC, EC and HC

CONSTRUCTION BID AND CONTRACT FOR
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE

March 23, 2016

NOTE: This Addendum forms a part of the contract documents. Acknowledge receipt of this addendum in the appropriate location on the bid.

GENERAL

The following addendum including changes, additions and/or deletions are hereby made a part of this contract.

The Engineer's Estimate for General Construction is \$7,840,000, Electrical Construction is \$1,630,000, and HVAC construction is \$40,000. A pre bid meeting was held on March 16, 2016 at the project site and included with this Addendum are the pre-bid meeting attendance sheets.

The estimated average day demands for the Arlington Wastewater Treatment Plant and for Country Club Estates have been included with this Addendum for 2015. It should be noted that the Town is in the process of abandoning the Country Club Estates Wastewater Treatment Plant and connecting the flows from Country Club Estates into the Arlington Wastewater Treatment Plant.

In terms of permits, the General Contractor shall be responsible for obtaining a Building Permit for this project. The Town will waive any application or review fees associated with obtaining this permit.

There are specific M/WBE and EEO requirements for this contract and even if you are an M/WBE firm, you will still need to demonstrate compliance with the M/WBE and EEO project requirements. The specific requirements are listed in the specifications and include a combined M/WBE goal of 20% of the contract, and EEO goals of 6.4% minority and 6.9% women. All bidders are required to submit the NYS EFC EEO Compliance Certification. EPA Forms 6100 -3 & 4 must be submitted with the Bid for contracts of \$100,000 or greater. Subcontractors with agreements greater than \$10,000 must also submit EPA Form 6100-3. Proof of providing EPA Form 6100-2 to Subcontractors must also be included. Please note that Contractors that are MWBE certified will only be credited for that portion of the project that is self-performed. Contractors will need to include waiver information if the submitted bid combined M/WBE goal is not met. There are requirements as part of the specifications that Iron and Steel products used on the project are produced in the United States of America (American Iron and Steel). Contractor must submit certification with bid as applicable. For the contracts greater than \$100,000, there is a requirement to complete and submit the "Lobbying Certification".

The Contractor shall field verify all existing utilities and shall contact Dig Safely New York (1 800 962-7962) prior to Construction.

CONSTRUCTION BID AND CONTRACT FOR
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE

March 23, 2016

PLANS

Drawings C-5 and C-6, Partial Site Plans

Clarification: There are underground gas and electric lines that were recently installed at the Wastewater Treatment Plant. In addition, the water line connection location near the entrance and water main route through the site will be adjusted to minimize the potential for encountering rock. Revised site plans will be included in a separate Addendum noting these modifications.

Drawing E-2, Electrical Site Drawing

Clarification: The proposed generator location is just south of the New 480V Service Transformer.

Drawing E-2, Electrical Site Drawing, Note on Plan next to Pole #1187

Delete: "Metering equipment to be relocated to take off pole at street."

SPECIFICATIONS

Section 00100, Instruction to Bidders, Paragraph A6:

The following clarification is provided: Any interpretations shall be submitted in writing to the Engineering representative, John Lazarony, at (fax number 845 473-1962) or email at jlazarony@morrisengineers.com at least 7 working days before the bid opening.

Section 00810 Supplemental Conditions, Paragraph 1.2.1 Automobile Liability

Delete: "Bodily Injury/Property Damage with combined Single Limits of at least \$1,000,000 per occurrence"

and Insert: "Bodily Injury/Property Damage with combined Single Limits of at least \$2,000,000 per occurrence"

Section 01100 Summary, Paragraph 1.3 E

Insert the following:

2. The Contractor shall have a minimum of five (5) years of documented experience in the installation of wastewater treatment facility or related equipment.

CONSTRUCTION BID AND CONTRACT FOR
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE

March 23, 2016

Section 01310 – Project Management and Coordination, Paragraph 1.3 Temporary Process Modification Plan

The following clarifications are provided: The General Contractor is responsible for developing and implementing a Temporary Process Modification Plan as described in this Section, in order to keep the treatment plant operational at all times. This shall include providing any required temporary pumping and/or bypass facilities. The General Contractor shall be responsible for preparation and implementation of this plan, while the Electrical and HVAC contractors shall be responsible for coordination of this work with the General Contractor and for providing temporary facilities and controls to support this, as noted in Specification Section 01125 – Summary of Multiple Contracts.

Section 01310 – Project Management and Coordination, Paragraph 1.7 Project Meetings

The following clarifications are provided: The Engineer will be responsible for scheduling of all meetings, including the Preconstruction and all Progress Meetings. The Engineer will also be responsible for preparation of meeting notes and minutes.

Section 01600 – Product Requirements

The following clarifications are provided: This section provides details on the product requirements for the project, including product requirements, product selection procedures, requirements for product substitutions and requirements for comparable products. It should be noted that no determinations will be made on any unnamed products until after the Notice to Proceed has been generated for the project, per this specification section.

Section 11331 – Bar Screen

The following clarification is provided: Additional information on bar screen is included in Specification Section 11330 – Wastewater Preliminary Treatment.

Section 11436 – Liquid Polymer Blending System, Paragraph 2.4 B 1a

Delete: “Back pressure valve”

Section 11436 – Liquid Polymer Blending System, Paragraph 2.4 B 4a

Add: “The primary dilution water rate control valve shall be motor actuated with manual override and shall respond to the system controller to maintain a set solution concentration and follow an external flow control signal. The water control valve shall be designed to maintain high, non-damaging mixing energy over the entire dilution water

CONSTRUCTION BID AND CONTRACT FOR
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE

March 23, 2016

flow range. Systems with dilution water control valves incapable of meeting this requirement will not be considered acceptable.”

Section 13520 Control Panels, Paragraph 1.3 Related Sections

Delete: “This section covers requirements for Control Panels and equipment and is in addition to requirements in Section 13500, “Process Monitoring and Control System”.”

and Insert: “This section covers requirements for Control Panels”.

It should be noted that there is no Centralized Process Monitoring and Control System as part of this project.

Section 13520 Control Panels, Paragraph 1.3 Submittals

Delete this paragraph in its entirety and Insert the following:

1.3 SUBMITTALS

- A. Mark each submittal to clearly indicate the intended use for each product, material, or procedure. Mark each item submitted for identification with the applicable page and paragraph number of the Specifications and/or the detail and sheet number of the Contract Drawings.
- B. Provide ISA Specification forms, data sheets and shop drawings each in bound form with indexes and descriptions. Provide data sheets with dividers and tabs referenced to the index and Submittal Control Log Number.
- C. Product Data: Include manufacturer's technical literature for each control device. Indicate dimensions, capacities, performance characteristics, electrical characteristics, finishes for materials, and installation and startup instructions for each type of product indicated.
- D. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 1. Bill of Materials: List of required equipment. Group equipment items by enclosure and field, and within an enclosure. Included: Equipment tag number, description, manufacturer, complete model number and all options not defined by model number, quantity supplied.

CONSTRUCTION BID AND CONTRACT FOR
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE

March 23, 2016

2. System drawings in ISA format indicating process flow. Show instrument locations, mechanical and electrical equipment.
 3. Panel Construction Drawings: Indicate control panel layouts drawn to scale clearly indicating device locations, terminal blocks, plastic wire ducts, plastic tubing ducts, usable spare space, name tags and their legends.
 4. Elementary electrical schematic wiring diagrams for process control.
 5. Point-to-point wiring diagram in block format showing actual device terminations.
 6. Detailed sequence of operation for each control system. Sequence of operation to be on the P&ID standard drawing.
 7. Complete data sheets on each control system component. Include terminations, power requirements, installation instructions, dimensions, and operating descriptions. Tag these sheets to match tag items in drawing Bill of Material.
 8. Indicate on each page of each data sheet which piece of equipment or material is to be provided under this Contract. Supplier markings shall be highlighted.
 9. Hardcopy of all PLC programmed logic sequences.
- E. List all digital, analog, and calculated point readouts at the control panels. Show engineering units. List all formulas, algorithms, and calculations specific to the Project. Include in Operation and Maintenance Manual.
- F. Indicate the Following on Each Shop Drawing:
1. Original drawing date.
 2. Show any change made after the original date within a "cloud" or "balloon" with a delta symbol. The delta symbol shall also appear in the revision block adjacent to the revision date and contain the same number corresponding to its revision.
- G. Indicate and explain deviations of the Drawings or submittal data from the express intent of this Document to the attention of the Owner in writing.
- H. In checking Drawings and submittal data, the Engineer makes every effort to detect errors and omissions. Failure of the Engineer to detect errors or omissions during the review of Drawings and submittal data shall not relieve the vendor of his responsibility to comply with the Contract Documents.

CONSTRUCTION BID AND CONTRACT FOR
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE

March 23, 2016

Section 13520 Control Panels, Paragraph 3.4 Field Quality Control

Delete this paragraph in its entirety and Insert the following:

3.4 FIELD QUALITY CONTROL

A. Preliminary System Test:

1. Preparation: Have the Company Field Advisor adjust the completed system and then operate it long enough to assure that it is performing properly.
2. Run a preliminary test for the purpose of:
 - a. Determining whether the system is in a suitable condition to conduct an acceptance test.
 - b. Checking and adjusting equipment.
 - c. Training facility personnel.
3. Also perform a witnessed validation demonstration consisting of:
 - a. Running each specified report.
 - b. Display and demonstrate each data entry template to show site specific customizing capability. Demonstrate parameter changes.
 - c. Execute menu tree.
 - d. Display graphics, demo update.
 - e. Execute digital and analog commands in English and graphic mode.
 - f. Demonstrate freeform address assignments and commands.
 - g. Demonstrate all specified diagnostics.
 - h. Demonstrate DDC loop precision and stability via trend logs of inputs and outputs (6 loops minimum).
 - i. Demonstrate scan, update, and alarm responsiveness.

B. System Acceptance Test:

1. Preparation: Notify the Engineer's Representative at least 3 working days prior to the test so arrangements can be made to have a Facility Representative witness the test.
2. Make the following tests:
 - a. Test system operational functions step by step as summarized in the detailed description of system operation.
 - b. Test monitor and control devices.

CONSTRUCTION BID AND CONTRACT FOR
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE

March 23, 2016

- c. Test all remote devices to demonstrate full range of motion in the “controllable range”.
3. Supply all equipment necessary for system adjustment and testing. Submit written report of test results signed by Company Field Advisor and the Engineer’s Representative.

Section 16231 Packaged Engine Generators, Paragraph 2.03 B5b

Delete: “Tank Capacity: Size for minimum of 48 hours of continuous engine generator operation at 100 percent rated load, but not larger than permissible by applicable codes.”

and Insert: “Tank Capacity: Size for minimum of 24 hours of continuous engine generator operation at 100 percent rated load, but not larger than permissible by applicable codes.”

All provisions of the Contract not affected by the forgoing shall remain in full force and effect.

Arlington Water Pollution Control Facility / Town of Bugkeepsie NY.

Plant upgrade Pre Bid meeting 3/16/16 10:00 AM

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Ronald Kilian	DANIEL O'CONNELL'S SONS	collian@cas-ny.com	845-223-3721

Town of Poughkeepsie Wastewater Treatment Facility's Annual Effluent Flows for 2015

	Country Club Estates WWTP		Arlington WWTP	
	Daily Average	Monthly Total	Daily Average	Monthly Total
	(MGD)	(Million Gallons)	(MGD)	(Million gallons)
1	0.038	1.178	2.2	68.2
2	0.038	1.064	2.1	58.8
3	0.082	2.542	3.0	93.0
4	0.067	2.010	3.0	93.0
5	0.033	1.023	2.2	68.2
6	0.034	1.020	2.4	72.0
7	0.033	1.023	2.0	62.0
8	0.030	0.930	1.8	55.8
9	0.027	0.810	2.0	60.0
10	0.039	1.209	2.0	62.0
11	0.052	1.560	2.2	66.0
12	0.044	1.364	2.4	74.4
Totals	0.517	15.73 MG	27.3	833.4 MG
Monthly Ave	0.043		2.275	