



FAX TRANSMITTAL

Date: February 5, 2021

To: Plan Holders

Company: Contractors

Number of Pages: 14 (Including Cover)

From: Anika Ture - Contract Administration
Telephone No. 918-596-9637
Fax No. 918-699-3470
Email – ature@cityoftulsa.org

RE: **Project No. RMUA ES 219-13 Haikey Creek WWTP Flow Equalization
Basin West Repair**

ADDENDUM NO. 1

Please fax or email a signed cover sheet 918-699-3470 to or
ature@cityoftulsa.org or karmenrice@cityoftulsa.org as
acknowledgement of receipt.

Thank you,

Signature

Company

Date

**ADDENDUM NO. 1
TO
PROJECT NO. RMUA ES 2019-13 HAIKEY CREEK WWTP
FLOW EQUALIZATION BASIN WEST REPAIR**

This Addendum No. 1 consisting of (2) items, submitted by Jacobs Engineering Group, Inc., is hereby made a part of the Contract Documents to the same extent as though it were originally included therein, and shall supersede anything contained in the Plans and Specifications with which it might conflict. **This entire Addendum shall be attached to the Index Sheet of the Contract Documents, recorded on page P-4 of the proposal, and submitted with bid. Failure to do so shall result in the bid being deemed non-responsive.**

This Addendum No. 1 consists of the following:

The attached documents list the detail items that have been modified in Addendum No. 1. These documents shall be inclusive and apply to this project.

All other provisions of the Plans and Specifications shall remain in full force and effect.

CITY OF TULSA


Paul D. Zachary, P.E.
City Engineer


HAJ/AJ/AT/kr

February 5, 2021

ADDENDUM NO. 1

**PROJECT NO. RMUA ES 2019-13 HAIKEY CREEK WWTP FLOW
EQUALIZATION BASIN WEST REPAIR**

This Addendum No. 1 consisting of 2 Items is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. **This addendum shall be attached to the Index Sheet of the Contract Documents and submitted with the bid. Failure to do so shall result in the bid being deemed non-responsive.**

This Addendum No. 1 consists of the following:

SPECIFICATIONS

1) Section 01 29 00

- a. **1.05.B.3,c ADD** "Meeting onsite with Owner, Engineer, Contractor, and approved liner representative, after basin has been cleaned, to evaluate the existing liner and determine repair quantity."

DRAWINGS

2) **S-1, DETAIL B, CHANGE** "EXTRUSION WELD" to "HOT AIR WELD"

All other provisions of the Plans and Specifications shall remain in full force and effect.
Jacobs Engineering Group Inc.



Luke Lenard, P.E.
Engineer of Record

Appended hereto and part of Addendum No. 1:

Photographs: **None**
Specifications: **01 29 00**
Drawings: **S-1**



END OF ADDENDUM

**SECTION 01 29 00
PAYMENT PROCEDURES**

PART 1 GENERAL

1.01 SUBMITTALS

- A. Informational Submittals:
 - 1. Schedule of Values: Submit on Contractor's standard form.
 - 2. Application for Payment.
 - 3. Final Application for Payment.

1.02 SCHEDULE OF VALUES

- A. Prepare a separate Schedule of Values for each schedule of the Work under the Agreement.
- B. Upon request of Engineer, provide documentation to support the accuracy of the Schedule of Values.
- C. Unit Price Work: Reflect unit price quantity and price breakdown from conformed Bid Form.
- D. Unit Price work listed as quantity 1:
 - 1. Reflect specified cash allowances and alternates, as applicable.
 - 2. List bonds and insurance premiums, mobilization, demobilization, preliminary and detailed progress schedule preparation, equipment testing, facility startup, and contract closeout separately.
 - 3. Break down by Division 2 through 49 with appropriate subdivision of each Specification.
- E. An unbalanced or front-end loaded schedule will not be acceptable.
- F. Summation of the complete Schedule of Values representing all the Work shall equal the Contract Price.
- G. Submit Schedule of Values on CD or by email, in a spreadsheet format compatible with latest version of Excel.

1.03 APPLICATION FOR PAYMENT

- A. Transmittal Summary Form: Attach one Summary Form with each detailed Application for Payment for each schedule and include Request for Payment of Materials and Equipment on Hand as applicable. Execute certification by authorized officer of Contractor.
- B. Use detailed Application for Payment Form provided by Authority.
- C. Provide separate form for each schedule as applicable.
- D. Include accepted Schedule of Values for each schedule or portion of lump sum Work and the unit price breakdown for the Work to be paid on a unit priced basis.
- E. Include separate line item for each Change Order and Work Change Directive executed prior to date of submission. Provide further breakdown of such as requested by Engineer.
- F. Preparation:
 - 1. Round values to nearest dollar.
 - 2. Submit Application for Payment, including a Transmittal Summary Form and detailed Application for Payment Form(s) for each schedule as applicable, a listing of materials on hand for each schedule as applicable, and such supporting data as may be requested by Engineer.

1.04 MEASUREMENT—GENERAL

- A. Weighing, measuring, and metering devices used to measure quantity of materials for Work shall be suitable for purpose intended and conform to tolerances and specifications as specified in National Institute of Standards and Technology, Handbook 44.
- B. Whenever pay quantities of material are determined by weight, material shall be weighed on scales furnished by Contractor and certified accurate by state agency responsible. Weight or load slip shall be obtained from weigher and delivered to Owner's representative at point of delivery of material.
- C. If material is shipped by rail, car weights will be accepted provided that actual weight of material only will be paid for and not minimum car weight used for assessing freight tariff, and provided further that car weights will not be acceptable for material to be passed through mixing plants.

ES 2019-13 - Haikey Creek WWTP Flow Equalization Basin West Repair

- D. Vehicles used to haul material being paid for by weight shall be weighed empty daily and at such additional times as required by Engineer. Each vehicle shall bear a plainly legible identification mark.
- E. Materials that are specified for measurement by the cubic yard measured in the vehicle shall be hauled in vehicles of such type and size that actual contents may be readily and accurately determined. Unless all vehicles are of uniform capacity, each vehicle must bear a plainly legible identification mark indicating its water level capacity. Vehicles shall be loaded to at least their water level capacity. Loads hauled in vehicles not meeting above requirements or loads of a quantity less than the capacity of the vehicle, measured after being leveled off as above provided, will be subject to rejection, and no compensation will be allowed for such material.
- F. Where measurement of quantities depends on elevation of existing ground, elevations obtained during construction will be compared with those shown on Drawings. Variations of 1 foot or less will be ignored, and profiles shown on Drawings will be used for determining quantities.
- G. Units of measure shown on Bid Form shall be as follows, unless specified otherwise.

Item	Method of Measurement
AC	Acre—Field Measure by Engineer
CY	Cubic Yard—Field Measure by Engineer within limits specified or shown
CY-VM	Cubic Yard—Measured in Vehicle by Volume
EA	Each—Field Count by Engineer
GAL	Gallon—Field Measure by Engineer
HR	Hour
LB	Pound(s)—Weight Measure by Scale
LF	Linear Foot—Field Measure by Engineer
SF	Square Foot
SY	Square Yard
TON	Ton—Weight Measure by Scale (2,000 pounds)

1.05 PAYMENT

A. General:

1. The following items shall be bid as shown on the Estimate of Quantities of the Bid Proposal. The description below summarizes the elements of the Work that are to be included in each item but they are not intended to represent a complete list of the required Work for a completed job. Rather, the descriptions are intended to serve as guidelines for the proper distribution of the Bid price. Any items not specifically described but required by the Drawings, Contract Documents, and Specifications shall be included in the appropriate items. The lump sum and appropriate unit price Bid items shall be broken down for the purpose of monthly progress payment as outlined below. Breakdown of the lump sum and unit quantity Bid items shall be provided by the apparent low Bidder within 48 hours after the Bid opening.
2. The Authority pays vendor invoices directly based upon written documentation submitted to and approved by the Authority.

B. Unit Price: Payment for unit price items covers all the labor, materials, and services necessary to furnish and install the following items.

1. Mobilization: This item includes mobilization and demobilization. A maximum of 5 percent of the total base Bid is allowed in the Bid proposal for mobilization and shall be paid for on an each (EA) basis in the following manner:
 - a. 50 percent on the first pay estimate.
 - b. 35 percent on the pay estimate that shows 50 percent completion of the Work, not included allowances for stored materials.
 - c. 15 percent on the final pay estimate.
2. Backflow preventer assembly and Enclosure with Hotbox, Complete: This item includes all required work associated with installing two (2) new 6-inch backflow preventer assemblies adjacent to the existing FEB West berm and tying into the existing 6-inch line on influent and effluent. Including but not limited to:
 - a. Heated enclosure (Hotbox).
 - b. Concrete slab.
 - c. Testing.
 - d. All appurtenances required for backflow preventer assembly.

3. XR5 Liner material, removal, repair, and appurtenances: This item includes all required work associated with installing, repair and replacement of existing XR5 geomembrane in the FEB including but not limited to:
 - a. Cutting and removal of existing XR-5 geomembrane.
 - b. Installation and repair of existing XR-5 geomembrane.
 - c. All appurtenances required for attachment to new and existing structures.
 - d. Testing of membrane.
 - e. Meeting onsite with Owner, Engineer, Contractor, and approved liner representative, after basin has been cleaned, to evaluate the existing liner and determine repair quantity.
 - f. This item includes all work required to make the geomembrane in the FEB operational. This item also includes all required work as shown on the Drawings, Specifications, or required for the construction of the geomembrane and not covered by another pay item.
4. Demolition: This item includes demolition and disposal of equipment, appurtenances and materials as shown on the demolition drawing, including, but not limited to:
 - a. Demolition/disposal of debris in the basin and damaged liner
 - b. Demolition/disposal of existing hotboxes, power center, concrete slab, and old piping.
 - c. Demolition/disposal of all other items as shown on the plans and described in the specifications or other items observed on site and confirmed by the Engineer within the work limits.
 - d. This item does not include removal and disposal of sludge or soft soil under the existing liner.
 - e. This item shall be paid for on a unit basis (EA) using a breakdown approved by the Engineer. Partial payments for this item shall be based on a percent of work completed under each section of the breakdown.
5. Remove Sludge and Sand from Wetwell: This item includes removal and disposal of sludge, soft or loose sand under the existing liner, piping, and from the wet well into sludge storage area as shown on the demolition drawing, including, but not limited to:
 - a. This item shall be paid for on a cubic yard (CY) basis as agreed to by the Authority.
6. Erosion Control, Area Disturbance Outside the Basin: Provide all materials, labor, equipment, and associated items necessary to re-vegetate disturbed areas and protect from soil erosion, in accordance with the Contract Documents. The AREA DISTURBANCE item shall be paid for on a unit basis (EA) basis as agreed to by the Authority.

7. Concrete – Slab, Concrete Pipe Supports and Stairs: Provide all materials, labor, equipment and associated items to install concrete slab, pipe supports and stairs, including excavation, demolition, forming and finishing and all other items for a complete system in accordance with the Contract Documents. This item shall be paid for on a cubic yard (CY) basis.
8. Concrete – Repair Mow Strip: Provide all materials, labor, equipment and associated items to repair concrete mow strip, including excavation, demolition, forming and finishing and all other items for a complete system in accordance with the Contract Documents. This item shall be paid for on a cubic yard (CY) basis.
9. Gravel Roadway Paving Removal and Replacement: Provide all materials, labor, equipment and associated items to remove existing gravel roadway and installing and resurfacing of new roadway and parking area in accordance with the Contract Documents and per the requirements of ODOT standard specifications, including disposal of unsuitable material off-site, compaction and preparation of subgrade, leveling and geotextile. This item shall be paid of a square foot (SF) basis.
10. Repair, Grade, and Compact FEB Embankment and Bottom: Provide all materials, labor, equipment and associated items to repair, grade, and compact FEB embankment and bottom including removal of sloughed soil, placement, compaction and regrade of embankment and bottom using proper mechanical methods to match undamaged sections of the berm in accordance with the Contract Documents. This item shall be paid on a square foot (SF) basis with final quantities based upon the original survey by the Engineer and as built survey by the Engineer at the completion of the Project.
11. Solid Slab Bermuda Sodding: Provide all materials, labor equipment and associated items to install sod on-site in accordance with the contract documents and includes watering and maintenance as specified. This item shall be paid for on a square foot (SF) basis.
12. 4-inch DIP (non-potable) Buried and Above Grade with Fittings and Thrust Blocks: Provide all materials, labor, equipment, and associated items necessary to install flanged above and below grade 4-inch DIP for non-potable water, including pipe, connections, fittings, supports and thrust blocks, and all other items for a complete system, in accordance with the Contract Documents. This item includes connection to the existing non-potable water (NPW) system and the water system around the existing FEB. Separate payment shall be made for surface restoration including sodding, asphalt pavement removal and replacement, and gravel surfacing. This item shall be paid for on a linear foot (LF) basis.

13. 6-inch DIP (potable) Buried and Above Grade with Fittings and Thrust Blocks: Provide all materials, labor, equipment, and associated items necessary to install buried and flanged above grade 6-inch DIP for potable water, including pipe, excavation, backfilling, connections, fittings, supports and thrust blocks, and all other items for a complete system, in accordance with the Contract Documents. This item includes connection to the existing non-potable water system and the water system around the existing FEB. Separate payment shall be made for surface restoration including sodding, asphalt pavement removal and replacement, and gravel surfacing. This item shall be paid for on a linear foot (LF) basis.
14. 6-inch Non-Potable Washdown System with Fittings: Provide all materials, labor, equipment, 6-inch washdown system, isolation valves, pipe supports and associated items necessary for a complete system including connection to the existing system, in accordance with the Contract Documents. The item shall be paid for on an individual/each (EA) basis.
15. 2-1/2 Inch Washdown Hydrant Assembly: Provide all materials, labor, equipment, 2-1/2 inch washdown hydrant, isolation valve and associated items necessary for a complete system in accordance with the Contract Documents. The item shall be paid for on an individual/each (EA) basis.
16. 6-Inch Gate Valve V122: Provide all materials, labor, equipment, and associated items necessary to install 6-inch V122, including excavation, valve installation, backfill and compaction, and all other items for a complete system, in accordance with the Contract Documents. The item shall be paid for on an individual/each (EA) basis.
17. 4-Inch Gate Valve V122: Provide all materials, labor, equipment, and associated items necessary to install 4-inch V122, including excavation, valve installation, backfill and compaction, and all other items for a complete system, in accordance with the Contract Documents. The item shall be paid for on an individual/each (EA) basis.
18. 2-Inch Gate Valve V109: Provide all materials, labor, equipment, and associated items necessary to install 2-inch V109 including excavation, valve installation, backfill and compaction and all other items for a complete system in accordance with the Contract Documents. The Item shall be paid for on an individual/each (EA) basis.

19. Power Center, 15 KVA, 480V, 3-Phase to 208/120V, 3 Phase, complete: Provide all materials, labor, equipment, and associated items necessary to install new 15kVA, 480V, 3-phase to 208/120V, 3-phase power center, including a NEMA 3R enclosure with 12-pole branch breaker spaces with 6 no. 1-pole 20A breakers installed. This includes disconnecting the power to the existing motor control center and removal of the damaged power center and all cables and wires within the conduit, swabbing and cleaning the entire length of the existing conduits and utilizing the existing conduits for the new power center, connection to the new hot box and other necessary coordination, shutdowns, connections and testing and all other items for a complete system, in accordance with the Contract Documents. The item shall be paid for on an individual/each (EA) basis.
 20. CCTV Inspection: Provide all material, labor, equipment and associated services for Closed Circuit Television (CCTV) inspection for the existing 18-inch pipe from basin outlet to flow pump station wet well. This item includes all dewatering or bypass pumping, pipeline cleaning, reviewing damaged areas of the pipeline with the owner and submitting an inspection report, in accordance with the Contract Documents. This item does not include repair work of any damaged pipe sections. This item shall be paid for on a unit basis (EA) basis.
- C. Allowances: An Owner's Allowance as shown in the Proposal has been provided in the Contract for various civil, mechanical, electrical, and plumbing and general construction work. The allowance shall be used only at the discretion of the RMUA. Any allowance balance remaining at the completion of the Project will be credited back to the Authority on the final Application for Payment submitted by the Contractor. Contractor shall proceed with work included in the allowance only after receiving a written order from the Authority's Representative authorizing such work. Proceeding with work in the allowance without a written order from the Authority's Representative will be at the Contractor's cost. The allowance shall be used for the cost of materials, labor, installation, and overhead and profit in accordance with GC-26, for additional work that is not identified in the Construction Documents/Plan, and not included in the Base Bid sum.
1. Owner's Allowance: Allowance for other construction work not included in the Contract Documents.
 - a. Allowance \$50,000.

D. Alternates;

1. Alternate 01: Provide all labor, equipment, and associated items necessary to remove dried sludge and sand from the WWTP to an approved location. This item shall be paid for a cubic yard (CY) basis as agreed to by the Authority.

1.06 NONPAYMENT FOR REJECTED OR UNUSED PRODUCTS

A. Payment will not be made for following:

1. Loading, hauling, and disposing of rejected material.
2. Quantities of material wasted or disposed of in manner not called for under Contract Documents.
3. Rejected loads of material, including material rejected after it has been placed by reason of failure of Contractor to conform to provisions of Contract Documents.
4. Material not unloaded from transporting vehicle.
5. Defective Work not accepted by Owner.
6. Material remaining on hand after completion of Work.

1.07 PARTIAL PAYMENT FOR STORED MATERIALS AND EQUIPMENT

- A. Partial Payment: No partial payments will be made for materials and equipment delivered or stored unless Shop Drawings and preliminary operation and maintenance data is acceptable to Engineer.
- B. Final Payment: Will be made only for products incorporated in Work; remaining products, for which partial payments have been made, shall revert to Contractor unless otherwise agreed, and partial payments made for those items will be deducted from final payment.

1.08 PARTIAL PAYMENT FOR UNDELIVERED, PROJECT-SPECIFIC MANUFACTURED OR FABRICATED EQUIPMENT

- A. Notwithstanding above provisions, partial payments for undelivered (not yet delivered to Site or not stored in the vicinity of Site) products specifically manufactured for this Project, excluding off the shelf or catalog items, will be made for products listed below when all following conditions exist:
 1. Partial payment request is supported by written acknowledgment from Suppliers that invoice requirements have been met.
 2. Equipment is adequately insured, maintained, stored, and protected by appropriate security measures.

3. Each equipment item is clearly marked and segregated from other items to permit inventory and accountability.
4. Authorization has been provided for access to storage Site for Engineer and Owner.
5. Equipment meets applicable Specifications of these Contract Documents.

B. Applicable Items:

<u>Specification Section</u>	<u>Specific Product</u>
31 32 36	Geomembrane

- C. Payment of 15 percent of manufacturer's quoted price for undelivered, Project-specific manufactured equipment will be made following Shop Drawing approval. Thereafter, monthly payments will be made based on progress of fabrication as determined by Engineer, but in no case will total of payments prior to delivery exceed 75 percent of manufacturer's quoted price.
- D. Failure of Contractor to continue compliance with above requirements shall give cause for Owner to withhold payments made for such equipment from future partial payments.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

