

ADDENDUM NUMBER EIGHT

DUPONT PUMP STATION AND BASIN IMPROVEMENTS – PHASE 2 (Contract B) W-12-026-203

CITY OF CHATTANOOGA, TENNESSEE

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

I. CONTRACT DOCUMENT

- Replace Section 00 41 00 Bid Form with the attached.
- Replace Section 31 23 00 paragraph 1.05.E with the following:

E. Unsuitable Soil: Includes existing fill materials, organic soils, weak native soils.

- Replace “Common fill shall not contain stones larger than 6 inches in largest diameter, a maximum of 75 percent passing the No. 200 sieve, and a maximum dry density of at least 90 pounds per cubic foot (pcf) as determined by ASTM D 698.” with “Common fill shall not contain stones larger than 6 inches in largest diameter and a maximum dry density of at least 90 pounds per cubic foot (pcf) as determined by ASTM D 698.” in Section 31 23 00 paragraph 2.01.A.

II. Q&A/COMMENTS

1. Follow-up question to Addendum No. 6. The answer provided in Addendum No. 6 specifically adds a maximum PI requirement of less than 15 to the soils required for backfill. Since the entire notes 3 and 4 were replaced, is the specification for select common soils or common soils (which do not have each PI limitation) applicable? After evaluation of the Geotech report provided in Addendum No. 1, the majority of the in-place soils do not meet the PI requirements and is likely that mixing of the soils which will occur during excavation will result in all of the soils exceeding the PI requirement for use as initial backfill or final backfill. We have also taken the extra time and obtained soil samples from various pits in the area. All of the surrounding materials, we have been able to locate and that are locally sourced, exceed the PI limit established in Addendum No. 6. In order to obtain a soil or aggregate that meets the backfill requirement (i.e. $PI < 15$), we would have to go outside a reasonable distance to get material or utilize a manufactured product, both of which the cost would be excessive. Can you confirm that it is your intent that the existing soils from the trench will be exported from the site and backfill which meets the additional PI limitations in Addendum #6 be imported for trench backfill? Are the on-site soils which will be excavated to install the utility unsuitable or objectionable as defined by 1.05 E/F in section 31-23-00?

Response: It is our intention to use the on-site material as common fill or select fill to the extent possible. To this effect, we made changes to the earthwork specification, Section 31 23 00 in two places. We removed the fines content requirement for common fill and select common fill and select common fill. We also removed the classification of clayey materials with $PI > 15$ as unsuitable material.

2. Follow-up question to Addendum No. 6. Reference detail A on Sheet CD-2. It is clear that 6" of pipe bedding is included in the cost of the pipe per LF. The detail calls for "Over excavation, if required, depth to be determined in field by Engineer". We have no way to put

a firm cost on this item. We have no way of quantifying it since it will be determined at a later date by the Engineer. Can you provide a bid item for over excavation and backfill to account for this unknown condition? The same consequences apply to this item as noted above in #2.

Response: The bid form has been updated to reflect over excavation and backfill.

3. The Ductile iron pipe (DIP) option is currently specified as a Pressure Class 250 pipe; examining the parameters to which the pipe will be subjected for the application, we respectfully request that the class of the pipe be changed to Pressure Class 150. DIP is extremely conservatively designed in accordance with the AWWA C150 standard; please reference Table 3-14 on page 3-25 (page 64 of 375 of the .pdf file) of the attached link: <https://american-usa.com/assets/documents/Complete-AMERICAN-Ductile-Iron-Pipe-and-Fittings-Manual-11-7-19.pdf> reflecting maximum depths of cover of flexible-lined DIP based on pressure class and laying condition. 48" Pressure Class 150 pipe can be successfully installed to a maximum depth of 33-feet above the top of the pipe using a Type 5 laying condition (re page 3-12 in the same link for details).

Response: The Ductile iron pipe (DIP) option is to remain Pressure Class 250 pipe.

4. Please clarify the "basis for award;" it is noted that the most recent bid form refers to DI as the 'Base Bid' and FRP as the 'Alternative Bid.' How will the bids be evaluated? Would a "life cycle cost analysis," examining the present value of the total costs to construct and operate the pipeline over its anticipated lifetime, be considered in the evaluation and basis of award?

Response: The basis for award will be the lowest responsive bid.

February 10, 2020

Justin C Holland, Administrator
City of Chattanooga

**DUPONT PUMP STATION AND BASIN IMPROVEMENTS - PHASE 2
(CONTRACT B)
CONTRACT NUMBER W-12-026-203**

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

5.01 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
Mobilization/Demobilization					
1	Mobilization/Demobilization	1	LS	\$	\$
Demolition					
2	Demolition – Structures & Underground Piping	1	LS	\$	\$
3	Abandon & Grout Fill Existing 36" RCP Gravity Sewer including Plugging Existing 36" RCP	1700	CY	\$	\$
4	Abandon & Grout Fill Existing 30" RCP Gravity Sewer	20	CY	\$	\$
5	Abandon & Grout Fill Existing 30" DIP Forcemain	1200	CY	\$	\$
Site Grading					
6	Fill to Meet Minimum 36" Cover Requirement as Directed by Engineer	1,800	CY	\$	\$
7	Over Excavation and Backfill as Directed by Engineer	50	CY	\$	\$
Sanitary Sewer Pipe					
8	48-Inch DI (Class 250)	6,180	LF	\$	\$
9	48-Inch FRP (SN 72)	6,180	LF	\$	\$
10	8-inch DI (Class 250)	37	LF	\$	\$
11	16-inch DI (Class 250)	60	LF	\$	\$
12	36-inch DI (Class 250)	46	LF	\$	\$
13	60" Steel Casing	110	LF	\$	\$
14	Railroad Jack and Bore	1	LS	\$	\$
15	Launch and Exit Shafts	475	CY	\$	\$
Sanitary Sewer Manholes					
16	4' Dia. MH	2	EA	\$	\$
17	5' Dia. MH	1	EA	\$	\$
18	6' Dia. MH	16	EA	\$	\$
19	8' Dia. MH	1	EA	\$	\$
20	9' Dia. MH	1	EA	\$	\$
21	Manhole Vents	4	EA	\$	\$
22	Drop Connections	2	EA	\$	\$
23	Watertight Lids	13	EA	\$	\$
Additional Construction					

24	Additional Construction Not Otherwise Covered by Line Items	1	LS	\$	\$
25	Stream Crossing	2	LS	\$	\$
26	Temporary HDPE Forcemain, Connections to Existing Forcemain, Valves, Couplings, etc. from STA 00+30 to STA 13+50, STA 54+10 and STA 60+00.	1	LS	\$	\$
27	Temporary HDPE Forcemain, Connections to Existing Forcemain, Valves, Couplings, Temporary Flow Meter, etc. at Existing Dupont Pump Station	1	LS	\$	\$
28	Soil, Concrete and Materials Testing	Allowance			\$ 25,000
29	Construction Verification Surveying	Allowance			\$ 10,000
30	All Reimbursed Railroad Costs	Allowance			\$ 50,000
Extra Items					
31	6" Concrete Encasement	65	LF	\$	\$
BASE BID SUBTOTAL for 48-Inch DI (Class 250) Option (Summation of Bid Items 1 through 8 and 10 through 31)				\$ _____	
_____ In Words					
ALTERNATIVE BID SUBTOTAL for 48-Inch FRP (SN 72) Option (Summation of Bid Items 1 through 7 and 9 through 31)				\$ _____	
_____ In Words					

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. Iran Divestment Act Compliance Certification
 - E. Attestation Regarding Personnel Used in Contract Performance
 - F. Certification By Proposed Prime or Subcontractor Regarding Equal Employment Opportunity
 - G. 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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