



DEPARTMENT OF PURCHASING & CONTRACT COMPLIANCE

**Winner 2000- 2006 Achievement of Excellence in Procurement Award
National Purchasing Institute**

Jerome Noble, Director



January 24, 2008

Re: Bid # 071TB58420K-RS Riverside Road Pump Station Upgrade

Dear Bidders:

Attached is one (1) copy of Addendum 5, hereby made a part of the above referenced Invitation to Bid # 071TB58420K-RS Riverside Road Pump Station Upgrade.

The bid due date for this project is Thursday, January 31, 2008 at 11:00 AM. This Addendum forms a part of the contract documents and modifies the original documents as noted below.

Except as provided herein, all terms and conditions in the Invitation to Bid referenced above remain unchanged and in full force and effect.

Sincerely,

Donna Jenkins

Donna Jenkins,
Chief Assistant Purchasing Agent

See attached documents

ADDENDUM No. 5

Modifications to the Specifications

- Item 1: Section 00300 – Bid Form, delete page 4, and replace with the attached, revised page 4.
- Item 2: Specification 07530, delete Article 1.01 Paragraph B. sub paragraph 4 and any other reference to a ballasted roof.
- Item 3: Specification 11151, Article 1.02 Operating Conditions and Performance requirements, make the following changes to the table

Total Dynamic Head (feet)	260' ± 10'	196	140' ± 15%
Maximum NPSHr (ft):	-	26	39
Minimum Stable Continuous Flow (gpm):	≤ 9,500		

- Item 4: Specification 13251, Article 2.04 paragraph A., add the words “or fiberglass” after the word CPVC in the second sentence.
- Item 5: Specification 13251, Article 2.04 paragraph F., add the words “Fybroc,” after the word “Sump-Gard”.
- Item 6: Specification 13251, Article 2.05, paragraph C, delete subparagraphs 5a and 5b.
- Item 7: Specification 15008, Article 2.01, add the following new paragraph at the end:

M. Secondary Containment Piping: When called for on the Drawings or listed in the schedules, provide secondary containment piping meeting the following requirements:

1. *Pipe material is to match the material of the carrier pipe.*
2. *Straight runs of pipe are to be equipped with centralizing spiders to hold the carrier pipe securely inside the secondary containment pipe.*
3. *Fittings are to be modified from injection-molded and/or seamless fittings. All secondary containment fittings shall be prefabricated to house the corresponding primary (carrier) fittings as a subassembly and be fully anchored to the corresponding primary fittings.*
4. *Joining methods are to be the same as the primary clarifier pipe.*
5. *Secondary containment piping is to be Guardian by Ipex, FloSafe, Inc., or equal. Clamshell type secondary containment is not acceptable.*

- Item 8: Specification 15114, add the following new paragraphs after Article 2.07 and before Part 3:

2.08 PVC/CPVC BALL VALVES

- A. *Ball valves shall have 125 psi minimum non-shock cold water pressure rating. Valves shall have integral unions with screwed ends or flanged ends as required and shall have removable handles. Valves shall be manufactured by Chemtrol Products Division of NIBCO, Inc., IPEX Industrial Thermoplastics, or equal.*

2.09 PVC/CPVC DIAPHRAGM VALVES

- A. *Diaphragm valves shall have flanged ends and shall have a position indicator and adjustable travel stop. Diaphragm valves shall be similar to Type G, as manufactured by ASAHI/AMERICA, or equal.*

- Item 9: Specification 15863, Article 2.03 paragraph A. first sentence, delete the words "an epoxy coating" and replace with the word "coatings".

- Item 10: Specification 15863, Article 2.03 paragraph E.1, first sentence, delete the words "or Type II PVC".

- Item 11: Specification 15863, Article 2.03 paragraph E. sub paragraph 3, delete the first sentence and replace with the following:

"Shaft - Shaft shall be 316 stainless steel with an FRP sleeve. The shaft sleeve is to be securely fixed and bonded to the wheel backplate and extend out of the housing through a shaft seal."

- Item 12: Specification 16620, Article 2.03 paragraph A., delete the text "methane based" and replace with "natural".

- Item 13: Specification 16620, Article 2.03 paragraph C., delete the text "320 psi at rated load." and replace with "364 psi at the standby rating."

- Item 14: Specification 16620, Article 2.05 paragraph A., last sentence, delete the text "9500" and replace with "8400".

- Item 15: Specification 17200, Article 2.02, add the following new paragraph after Article 2.01 and before Part 3:

"D. PLC-RRPS shall be configured to communicate with the Dexter Fortson Associates' terminal unit via Modbus RTU protocol on a RS-485 network. The PLC shall be configured as a slave device

on the network with the terminal unit acting as a master device. All data to be shared with the terminal unit shall be stored in contiguous registers. The instrumentation subcontractor shall coordinate with Dexter Fortson Associates to provide all data and functionality as specified in the Contract Documents."

Item 16: Specification 17120, delete Article 2.01 paragraph E in its entirety and replace with the following new paragraph E:

"E. PLCs shall be Allen-Bradley ControlLogix with L55M23, minimum, redundant processor."

Item 17: Section 00490, Paragraph 9 - Builder's Risk , under **Deductibles**, change the deductible amount for Flood and Earthquake from "\$25,000" to "\$250,000".

Modifications to the Drawings

Item 1: Revise Drawing M1 in accordance with the attached sketch MSK-1.

Item 2: Delete note 11 on drawing M1 and replace with the following:

"Route gas line to generators. Coordinate stub up locations to suit equipment furnished. Gas line is to be 6" std. wt. steel pipe, coated & wrapped per Gas Co. Standards."

Item 3: Revise note D2 on drawing S1 by the addition of the following sentence:

"Vibratory demolition methods may be used to demolish the odor control containment area including walls and slab."

Questions / Responses

Question 1: Table 9-1 in section 09900 lists waterproofing to be used in accordance with section 07100. That section is not included and the areas requiring waterproofing are unclear. Please advise.

Response: Water proofing is only required for exterior walls below grade where the interior is dry. There are no walls meeting this criteria on this project, thus no waterproofing is required and that is why the section 07100 is not included.

Question 2: Sheet A5 has a note that reads, "Replace wood blocking where existing is rotted." Please quantify amount of rotted wood for bidding purposes.

Response: See sheet A3 for location of area where blocking is to be replaced. This area is less than 10' x 20' in size.

- Question 3: Please clarify use of "tandem megalugs" for the 48" and 36" force mains (as shown on drawing M1). Are these to be used on all mechanical joints?
- Response: Specification 15000, paragraph 2.01 D., states that all piping is to be restrained joint unless otherwise noted. Since solid sleeves, and valves are not available with restrained joints, tandem megalugs are listed as the means of restraining those joints where a restrained joint is unavailable.
- Question 4: "Demolition Construction Methods" addressed in Plans on Structural Notes (Drawing No. S1); Demolition Section, Item D-2, last sentence; "Explosives and vibratory hammers shall not be used for demolition work." For demolition of concrete slabs and CMU walls "exterior of" the existing Pump Station Building envelope, can vibratory hammers be utilized (i.e., existing Odor Control Facilities floor slab and Brick Veneer/CMU containment wall)?
- Response: See Addendum No. 5, Modifications to Drawings, Item 3 for Drawing S1 (above).
- Question 5: I am seeking a clarification upon the use of "tandem megalugs" for the 48" and 36" force mains (as shown on drawing M1). Are these to be used on all mechanical joints?
- Response: See response to question 3 above.
- Question 6: Please provide a specification for the metal roof tiles detailed on the architectural drawings.
- Response: There is no specification for the existing roof tiles. The manufacturer of the original tiles is not known. The existing roof tiles are pre-formed, granular-coated, aluminum tiles. The tiles have approximate dimensions of 4'-6" long by 18" wide with a formed lip at the bottom that is 3/4" (±) deep. There are 7 concave sections per panel and they are divided by a double convex relief.
- Question 7: Section 13251 - Modular Odor Control Scrubber Paragraph 2.02 A. requires a minimum of two (2) packed bed scrubbing stages. Should read three (3) packed beds?
- Response: No, the scrubber is a 3 stage process but not all listed manufacturers use 3 packed stages.
- Question 8: Section 13251 - Modular Odor Control Scrubber Paragraph 2.03 I. requires piping to be insulated and heat traced. Does the piping need to be insulated and heat traced in the shop?
- Response: The specification does require this to be done in the shop. If it is not, then it needs to be done in the field.
- Question 9: Section 13251 - Modular Odor Control Scrubber Paragraph 2.03 L. requires the packing diameter to be 3.5 inches. Can 2"

- Rauschert Hi-Flow PP ring packing or Jaeger Tri-Pack be used because of the square cross-section and the possibility of gas bypass and liquid channeling?
- Response: No, provide as specified.
- Question 10: Section 13251 - Modular Odor Control Scrubber Paragraph 2.04 the recycle pumps to be made of CPVC. Can the pumps be manufactured from fiberglass?
- Response: See Addendum No. 5, Modifications to the Specifications, above.
- Question 11: Section 13251 - Modular Odor Control Scrubber Paragraph 2.05 F. requires the metering pumps to have a waterproof enclosure and the drawings show the pumps mounted on the deck of the sump. Can a separate enclosure, remote from the sump deck be utilized?
- Response: As long as the overall footprint remains the same, there is no objection to this proposal.
- Question 12: Section 13251 - Modular Odor Control Scrubber Paragraph 2.05: is a hose break switch required?
- Response: No.
- Question 13: Section 13251 - Modular Odor Control Scrubber Paragraph 2.05 C. 5. A degassing valve is not required with a hose pump. Does one need to be provided?
- Response: See Addendum No. 5, Modifications to the Specifications, above.
- Question 14: Section 15892 – Fiberglass Reinforced Plastic Duct Paragraph 2.03 C. lists the allowable gas leakage for the butterfly dampers. Are these leakage rates correct or should they be less?
- Response: The leakage rates are maximums, dampers with lower leakage rates may be furnished but are not required by the specification.
- Question 15: Section 15892 – Fiberglass Reinforced Plastic Duct Paragraph 2.03 C. 3. b. requires a 316 SS shaft. Should the shaft be encapsulated w/ a fiberglass sleeve?
- Response: A shaft sleeve is not required but can be furnished if so desired.
- Question 16: Section 15892 – Fiberglass Reinforced Plastic Duct Paragraph 2.03 C. 3. f. requires internal stops for the blade. Can a stop-less design be furnished?
- Response: Yes provided the damper meets the specified leakage rate.
- Question 17: Section 15892 – Fiberglass Reinforced Plastic Duct Paragraph 2.03 C. 3. h. requires with hand quadrant actuators fabricated of type 316 stainless steel. Can a cast iron 90 degree worm gear actuator be used?
- Response: Yes.

- Question 18: Section 15863 – Odor Control Fans Paragraph 2.03 A. requires an epoxy coating with UV inhibitors. Shouldn't this be a housing laminate with a final c-veil FRP surfacing veil with a smooth pigmented gel coat final finish with UV inhibitors?
- Response: The construction that is suggested is defined in paragraph 2.03 E. Also, see Addendum No. 5, Modifications to the Specifications, above.
- Question 19: Section 15863 – Odor Control Fans Paragraph 2.03 E. 1. allows a type II PVC material. PVC should not be allowed.
- Response: Agreed – See Addendum No. 5, Modifications to the Specifications, above.
- Question 20: Section 15863 – Odor Control Fans Paragraph 2.03 E. 2. requires a backward curved fan wheel. To meet the static pressure specified, a forward curved fan wheel is required.
- Response: Agreed – see Addendum No. 4.
- Question 21: Section 15863 – Odor Control Fans Paragraph 2.03 E. 3. requires a steel shaft with an FRP sleeve. Shouldn't this be 316 SS with a shaft seal?
- Response: See Addendum No. 5, Modifications to the Specifications, above.
- Question 22: Section 15863 – Odor Control Fans Paragraph 2.03 F. requires a backward curved fan wheel. To meet the static pressure specified, a forward curved fan wheel is required.
- Response: Agreed – see Addendum No. 4.
- Question 23: Section 16347 – Medium Voltage Vacuum Circuit Breaker Switchgear Paragraph 2.03 B. 2, are Woodward DSLCs and MSLCs acceptable?
- Response: No. Provide as specified.
- Question 24: Section 16347 – Medium Voltage Vacuum Circuit Breaker Switchgear Paragraph 2.03. B. 3., Are GE Fanuc 90-30 PLCs acceptable in lieu of Allen Bradley?
- Response: No. Provide as specified.
- Question 25: In reference to drawing M5, are the existing pump sole plates to be demolished or can they be reused with the first-named equipment manufacturer?
- Response: They are to be demolished and may not be reused.
- Question 26: Can an adjustment be made to Builders Risk Flood Insurance Deductible?
- Response: See Addendum No 5, Modifications to the Specifications, Item 17 above.

ACKNOWLEDGEMENT OF ADDENDUM NO. 5

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Purchasing Department, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30335 by the Bid due date and time on **Thursday, January 31, 2008 at 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 5, _____ day of _____, 2008.

Legal Name of Bidder

Signature of Authorized Representative

Title

SCHEDULE OF PRE-APPROVED INSTRUMENTATION AND CONTROL SYSTEM SERVICE PROVIDERS

Contractor shall circle the name of the System Integrator (one and only one) included in the base bid.

17000	Control and Information System Scope and General Requirements	(A) Control Instruments, Inc. (B) Global Control Systems, Inc. (C) M/R Systems (D) Revere Control Systems, Inc. (E) Southern Flow, Inc (E) Transdyn
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The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Contracting Officer and to fully complete all work under this Contract within **Five hundred forty eight (548)** consecutive calendar days from and including said date.

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

In case of discrepancies between the figures shown in the unit prices and the totals, the unit prices shall apply and the totals shall be corrected to agree with the unit prices. In case of discrepancies between written amounts and figures, written amounts shall take precedence over figures and the sum of all Bid extensions (of unit prices) plus lump sum items shall take precedence over BID TOTAL.

The Bidder furthermore agrees that, in the case of a failure on his part to execute the Contract Agreement and Bonds within ten (10) days after receipt of conformed contract documents for execution, the Bid Bond accompanying his bid and the monies payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure.

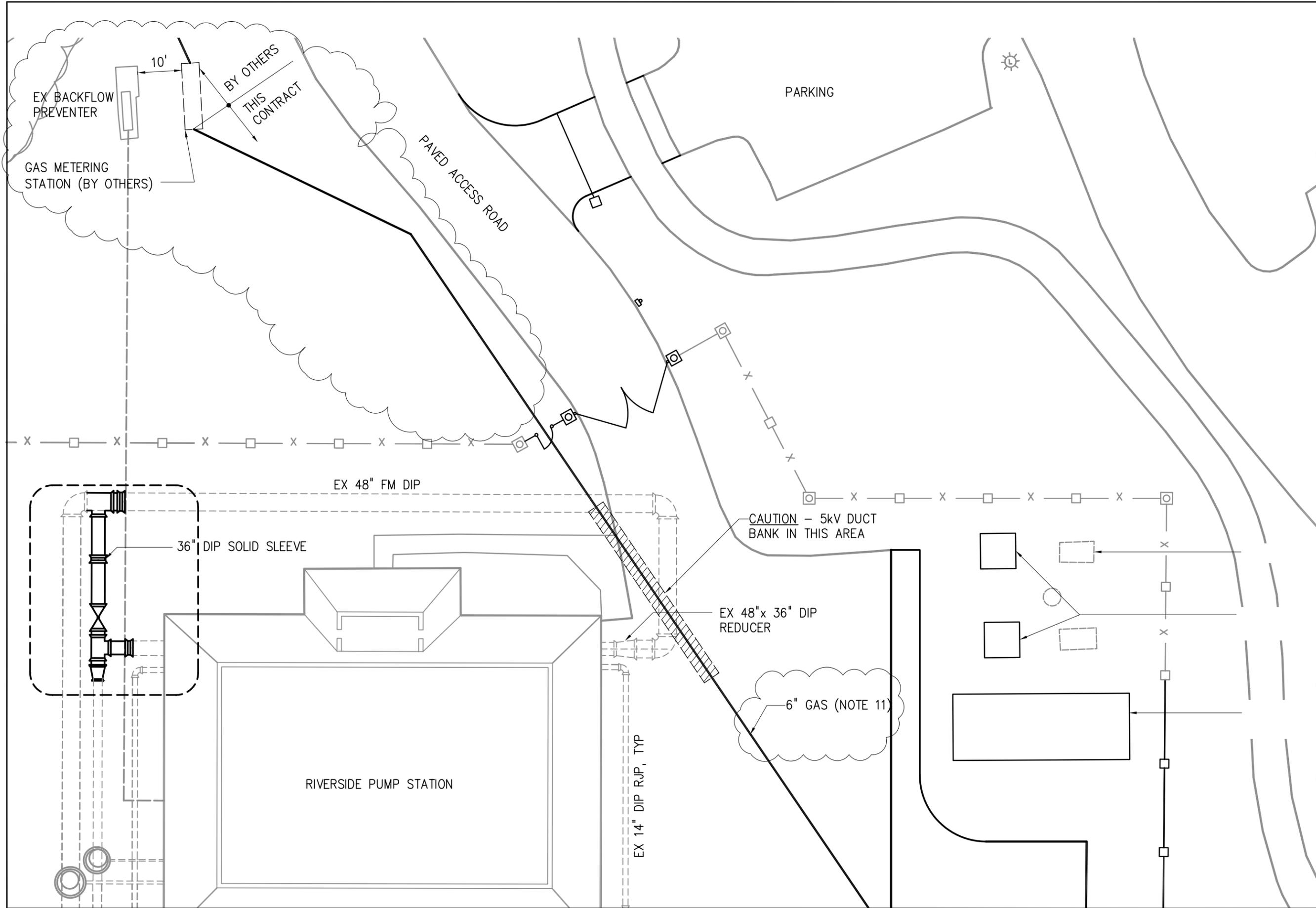
Enclosed is a Bid Bond in the approved form, in the sum of: _____

_____ Dollars

(\$ _____) according to the conditions of "Instructions to Bidders" and provisions thereof.

The undersigned acknowledges receipt of the following addenda (list by the number and date appearing on each addendum) and thereby affirms that its Bid considers and incorporates any modifications to the originally issued Bidding Documents included therein.

ADDENDUM # _____ DATED _____



ADDENDUM NO. 5	DATE 01-24-08	Mechanical Yard Piping Plan		H & S JOB NUMBER 30039	REFER TO CONTRACT DRAWING NUMBER M1
ATTACHMENT NO. MSK-1	BY H & S	RIVERSIDE ROAD PUMP STATION UPGRADES		CONTRACT NUMBER .	SHEET 1 OF 1

575 RIVERSIDE ROAD, ROSWELL, GA. 30075