

**ADDENDUM #3
BID NO. 2009-V**

Issue Date: August 28, 2009

Project: Ellisville Water System Improvement – Expansion to US 441

This ADDENDUM is issued to institute the included changes, additions and/or deletions to the Plans and Specifications for the construction of the **ELLISVILLE WATER SYSTEM IMPROVEMENTS – EXPANSION TO HWY 441** for **COLUMBIA COUNTY** and hereby becomes a part of said Plans and Specifications. Where an item on the original Plans and Specifications is amended, voided, or superseded by a modification contained in the ADDENDUM, the provisions of such item not specifically amended, voided, or superseded shall remain in effect.

Response to Request for Additional Information #1

Attached are Responses to a Request for Additional Information. Each bidder shall familiarize themselves with the information provided herein prior to the submission of their bid.

Each bid submitted in response to this Request for Bids shall include an acknowledgement of this addendum.

EUTAW UTILITIES, INC.

Project Development...Concept to Completion



Date: August 28, 2009

To: All Bidders

From: Eutaw Utilities

**RE: Ellisville Water System Improvement
Expansion to U.S. Highway 441
Request for Additional Information #1**

The following questions were submitted in respect to the above referenced project.

1. Are permits available?

FDOT and FDEP permits are available for review at Eutaw Utilities offices. All local and FDEP NPDES (NOI) permits are the responsibility of the contractor.

2. What are the contract times and liquidated damages.

Contract substantial completion time is 150 days, final completion is 180 days. Liquidated damages are \$500.00 per day after final completion date.

3. Relative to data logging of the fusion process, the following indicates this is required for both FPVC and HDPE:

Directional Boring, Section 02300-Part2.3A includes following statement: "The fusion equipment shall be equipped with a Data Logger. Records of welds () shall be maintained for five years."

HDPE Pipe & Fittings, Section 02620-Part3.01A includes following statement: "The pipe shall be joined with butt, heat fused joints as outlined in ASTM D2657 and conform to the Generic Butt Fusion Joining Procedure for Field Joining of PE pipe, Technical Report TR-33/2005."

Fusible PVC Pipe, Section 02621-Part3.01D states: "Each fusion joint shall be recorded and logged by an electronic monitoring device (data logger) affixed to the fusion machine."

Data logging for the fusion process is required as per manufacturer's recommendations.

4. Relative to connection of HDPE to PVC B&S by direct mega lug fitting, the following indicates this is not an acceptable practice (although distributors/contractors have attempted to convince owners/engineers otherwise) given the long term creep of HDPE:

HDPE Pipe & Fittings, Section 02620-Part2.03D includes following statements: “A molded flange connector adaptor within carbon steel back up ring assembly shall be used for pipe type transitions. Ductile iron back-up rings shall mate with cast iron flanges per ANSI B16.1. A stainless steel back-up ring shall mate with a 316 stainless flange adapter per ANSI B16.1.” Point 2 further states - “No solid sleeves shall be allowed between such material transitions.”

Note: Given the equivalent mechanical and dimensional properties of Fusible PVC to B&S PVC, FPVC is to be connected to other pipe and fittings per DI connections called for in specifications for PVC pipe.

Connection requirements must meet specifications.

5. Also, with respect to clarifying via addenda the equivalent pressure class DR values for HDPE vs FPVC: If 160 psi is the max operating pressure rating necessary then DR 11 for HDPE and DR 25 for FPVC provides such (based on most recent AWWA Standards for C906 and C900 respectively). Accordingly, savings can be achieved on the B&S Pipe by adjusting the DR from 18 (235 psi pressure rating per C900-07) to DR 25 (165 psi pressure rating per C900-07). If a minimum of 200 psi pressure rating is required then HDPE should be specified as DR9 and FPVC (and B&S PVC) as DR 18. The disinfectant compound attack of HDPE (reference information provided via email below) may also warrant thicker wall of DR 9.

DR-18 is required minimum for PVC and FPVC, DR-9 is required minimum for HDPE.