

**CONTRACT DOCUMENTS
BOONE COUNTY, MISSOURI
Boone County Public Works South Facility Sanitary Sewer Connection & Lagoon Closure
BID NO: 23-09MAR06**

**ADDENDUM #1
(Issued March 3, 2006)**

This addendum is issued in accordance with the Introduction and General Conditions of Bidding and is hereby incorporated into and made a part of the Contract Documents. Bidders are reminded that receipt of this addendum should be acknowledged and submitted with bidder's *Response Form*.

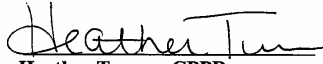
Specifications for the above noted Request for Bid and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect:

BID DOCUMENTS:

1. On Page 515-2 of the Bid Documents under **TECHNICAL SPECIFICATIONS; SECTION 515 – SEWER PIPE INSTALLATION AND TESTING; 515.8-Acceptance Tests:**
Delete paragraph “b. Air Testing” and replace with the following:
 - b. **Air Testing.** Lines will be laid to the connection points with the existing lines, but prior to connecting the new lines to the existing lines the pipes must pass an air test performed in accordance with ASTM C828.
Leakage shall not exceed 0.003 cfm per square foot of internal pipe wall at an average pressure of 3 psi. The time elapsed for a one psi drop in air pressure shall not be less than: $t = 0.472 d$; where :
 t = time in minutes, and d = pipe diameter in inches.
Leaks shall be repaired and the reach of sewer pipe retested.
2. On Page 515-3 of the Bid Documents under **TECHNICAL SPECIFICATIONS; SECTION 515 – SEWER PIPE INSTALLATION AND TESTING; 515.8-Acceptance Tests:**
Delete paragraph “e. Deflection” and replace with the following:
 - e. **Deflection.** For this contract: Following satisfactory air testing and backfilling of the new lines, but prior to field connecting the new lines to the existing lines, all flexible pipe shall be tested, by the use of a mandrel or other approved device, to ensure that no pipe deflection has occurred greater than 5% of the outside diameter of the pipe. These tests shall be performed without mechanical pulling devices and without additional cost to the Owner. Pipe with a deflection exceeding 5% of the inside diameter shall be uncovered, and the bedding and backfill replaced to prevent excessive deflection. Repaired pipe shall be retested.
3. ***Clarification:*** After the new lines have passed the air test and mandrel test as outlined above, the new lines and existing lines will be connected using one of the repair couplings listed on page 505-2 of the Bid Documents under **TECHNICAL SPECIFICATIONS; SECTION 505 – SANITARY SEWER PIPE; 505.2 - a. PVC PIPE, Jointing Materials – Field cut joints and connections to other piping materials.** All labor and material to make these connections shall be considered incidental to bid item #1.
4. On Page 16.1 of the Bid Documents under **SPECIAL PROVISIONS:**
Delete the last paragraph regarding **Mandrel Testing**.
5. ***Clarification:*** The Contractor will not be required to haul any excess excavated material from the project site. Excess excavated material that is suitable and approved by the engineer may be used to mix with the sludge in the lagoon according to the lagoon closure plan. Any remaining excess material shall be stockpiled by the contractor

at an on-site location to be determined by the Public Works Department or loaded onto Public Works trucks for removal.

6. **Additional Information:** Information regarding estimated lagoon sludge quantities, etc., is contained in the attached copy of the Lagoon Closure Permit application submitted to MDNR.
7. **Clarification:** The top 6" of all surfaces disturbed within the graveled lot area shall be resurfaced by the Contractor with a 6" thickness of 1" minus limestone aggregate compacted and graded to match existing grades and provide positive drainage. All labor and materials to perform this work is incidental to bid items 1., 2., & 4.
8. **Clarification:** Regarding bid item #3.: The septic tank and pump station wetwell shall be pumped out by the Contractor and contents disposed of off site in a manner that is compliant with all applicable local, State, and Federal regulations for sanitary waste disposal. A receipt or other suitable documentation shall be provided by the Contractor to the Owner as a written record that all waste was properly disposed of at a MDNR permitted waste disposal/ treatment facility.
9. **Additional Information:** Regarding bid item #3.: The estimated size of the septic tank is 16' x 6' x 6' (approx. 4,300 gal.), and the estimated size of the wetwell is 4' diameter x 8' deep (approx. 750 gal.). The estimated amount of sand required to fill these structures is 50 ton.
10. **Additional Information:** A Lagoon Closure Permit application has been submitted to the MDNR Regional Office. It is anticipated that approval to proceed with closure as shown on the plans will be received prior to the start of construction. However, it must be noted that the work to close the lagoon/ treat the sludge cannot start until the permit is issued.
11. **Clarification:** Boone County Regional Sewer District staff will provide construction inspection services for this project.

By: 
Heather Turner, CPPB
Buyer, Purchasing

BIDDER has examined copy of Addendum #1 to Bid Number 23-09MAR06 Boone County South Facility Sanitary Sewer Connection & Lagoon Closure, receipt of which is hereby acknowledged:

Company Name: _____

Address: _____

Phone Number: _____

Fax Number: _____

Authorized Representative Signature: _____

Date: _____

Boone County Public Works

Don Abell, P.E.
 Manager
 Engineering Design and Construction



5551 Highway 63 South
 Columbia MO 65201-9711
 Phone (573) 449-8515 ext. 236
 Fax (573) 875-1602
 E-mail: dabell@boonecountymmo.org

February 17, 2006

G. Irene Crawford, Regional Director
 Missouri Department of Natural Resources
 Northeast Regional Office
 1709 Prospect Dr.
 Macon, MO 63552

RE: Boone County Public Works South Facility Lagoon Closure

Dear Ms. Crawford:

The Boone County Regional Sewer District (BCRSD) has recently installed a new collection and treatment system that can serve the Boone County Public Works South Facility at 5551 Highway 63 South, Columbia, MO 65201. It is our intent to connect our facility to the new sanitary sewer system. Therefore, I am submitting this letter and attached documents as a notice of our intent to close/remove the sewage treatment lagoon serving the Boone County Public Works South Facility and terminate Operating Permit #MO-0105414. It will no longer be in use as of May 2006.

The sludge in the lagoon is from domestic waste. The volume of the sludge is calculated to be 3,500 gallons. The lagoon measures 70 feet by 80 feet between the outside edges of the berms. A composite sample of the sludge was collected and analyzed for: % total solids, fecal coliform, and nutrients. A copy of the test results is attached.

The water in the lagoon will be pumped into a BCRSD operated sanitary sewer system. Any existing piping will be removed or plugged. The remaining sludge will be incorporated with on-site soil at a ratio of 1:1 (minimum). The lagoon berms will be regraded to achieve a uniform slope with positive surface drainage. The total area of land disturbed will be less than 1 acre and a Land Disturbance Permit will not be required. However, the site will be seeded and mulched with straw to prevent erosion, in accordance with Standard Conditions, Part III, Section I of the discharge permit.

Please review the enclosed Form J - Request for Termination of a State Operating Permit for approval. We would like to begin work on this project by April 1, 2006 and expect to have it completed by May 15, 2006. Please feel free to call me at the number above if you have any questions or require any additional information.

Sincerely,

Don Abell, P.E.

DWA

c: David Mink, Director - Public Works
 Chip Estabrooks, Manager-Maintenance Operations
 Tom Ratemann, General Manager BCRSD



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
 (SEE MAP FOR APPROPRIATE REGIONAL OFFICE)
 FORM J - REQUEST FOR TERMINATION OF A
 STATE OPERATING PERMIT
 (NOT FOR USE WITH GENERAL PERMITS MO-G OR MO-R)

UNDER MISSOURI CLEAN WATER LAW			
1.00 PERMIT NUMBER MO-0105414			
2.00 NAME OF FACILITY Boone County Public Works			
2.10 ADDRESS 5551 Highway 63 South		CITY Columbia	STATE MO.
			ZIP CODE 65201
2.20 OWNER			
NAME Boone County Public Works		E-MAIL dabel1@boonecountymd.org	TELEPHONE NUMBER 573-449-8515 ext 236
ADDRESS 5551 Highway 63 South		CITY Columbia	FAX NUMBER 573-875-1602
			STATE MO.
			ZIP CODE 65201
2.30 CONTINUING AUTHORITY			
NAME Boone County Public Works			TELEPHONE NUMBER 573-449-8515 ext 236
ADDRESS 5551 Highway 63 South		CITY Columbia	FAX NUMBER 573-875-1602
			STATE MO.
			ZIP CODE 65201
3.00 REASON FOR TERMINATION REQUEST (CHECK ONE)			
<input checked="" type="checkbox"/> FOR WASTE WATER TREATMENT PLANTS, THE TREATMENT PLANT IS REMOVED AND SLUDGE WAS REMOVED AND PROPERLY DISPOSED OF (ATTACH EXPLANATION), AND/OR CLOSURE PLAN APPROVED AND IMPLEMENTED.			
<input type="checkbox"/> FOR INDUSTRIAL FACILITIES, SITE ACTIVITIES HAVE CEASED, NO "SIGNIFICANT MATERIALS" REMAIN ON SITE, AND SITE HAS OBTAINED "CLOSURE" STATUS FROM ALL APPLICABLE DEPARTMENT PROGRAMS.			
<input type="checkbox"/> GENERAL PERMIT MO-G _____ OR MO-R _____ HAS BEEN ISSUED AND COVERS ALL REGULATED ACTIVITIES AT SITE.			
<input type="checkbox"/> OTHER REASON (SPECIFY) _____			
4.00 CONTACT PERSON KNOWLEDGEABLE ABOUT SITE			
NAME Don Abell, P.E.			TELEPHONE NUMBER (573) 449-8515 ext 236
5.00 I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THE TERMINATION REQUEST, THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE, COMPLETE AND ACCURATE.			
NAME AND OFFICIAL TITLE (TYPE OR PRINT) Don Abell, P.E.			TELEPHONE NUMBER (573) 449-8515 ext 236
SIGNATURE 			DATE SIGNED 2/15/06