May 27, 2004

ADDENDUM No. 1 TO ALL BIDDERS:

Reference: Invitation for Bids: IFB#214-04-Boiler Plant Addition
Commodity: Boiler Plant Addition-Project #214-16769-00
Dated: May 10, 2004
For Delivery To: Longwood University
201 High Street
Farmville, Virginia 23909
Bid Due: June 9, 2004 at 2:00 pm. Bids will be read aloud at 2:00 pm on June 10, 2004.

This addendum shall be added to and become a part of the Contract Documents, dated April 8, 2004, for the project. Bidders shall acknowledge receipt of this addendum on the proposal form and include its provisions in their proposals. Failure to do so may disqualify the bidder.

CHANGES TO THE SPECIFICATIONS SHALL INCLUDE:

DIVISION 2 – SITE CONSTRUCTION

1. Add to this Division:

SECTION 02250 – SHORING & UNDERPINNING

The Specification for this Section is included with this Addendum.

CHANGES TO THE DRAWINGS SHALL INCLUDE:

1. SHEETS S1.1, S2.1 and S2.2.

1) On all Sections noted with the wording “stl screw piles by others”, delete the wording “by others”. The steel screw piles shown in each Section are to be furnished and installed as a part of the contractor’s work.

SECTION 02250 - SHORING & UNDERPINNING

PART 1: GENERAL

1.01 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes: Shoring and Underpinning, including:
1. Grip-Tite® Helix Pier System for new building and equipment foundation support.
2. Grip-Tite® Helix Pier System for remedial foundation repair, as necessary.
3. Grip-Tite® Helix Pier System for other foundation stabilization, as necessary.

B. Related Sections:
1. Excavation to working level: Division 2 Earthwork Section(s)
2. Concrete Reinforcement: Division 3 Concrete Section(s)
3. Cast-in-Place Concrete: Division 3 Concrete Section(s)

C. Unit Prices:
Product and installation included in this section are specified by unit prices.

1.03 REFERENCES

A. General:
Standards listed are identified by issuing authority. Abbreviations, designation numbers, title, or other designation, are established by the issuing authority.

8. ASTM A500, “Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes”.
12. ASTM A935, “Standard Specification for Steel, Sheet and Strip, Heavy Thickness Coils, High Strength, Low-Alloy, Columbium or Vanadium, or Both, Hot-Rolled”.

C. Society of Automotive Engineers (SAE):
1. SAE J429, “Mechanical and Material Requirements for Externally Threaded Fasteners”.

1.04 DEFINITIONS

A. Helix Pier System by Grip-Tite:
A deep foundation member consisting of a steel shaft with helical plates welded to the shaft at specified intervals. The foundation member is installed using mechanical rotational force.

1.05 SYSTEM DESCRIPTION

A. Design Requirements:
Helix Pier designed for a 30-kip working load. Design and/or application of the Grip-Tite® Helix Pier System to be performed by a certified Grip-Tite dealer/installer, or a Professional Engineer experienced in design of this work and licensed to practice in the state where the project is located.

1.06 SUBMITTALS

A. General:
Listed submittals to be provided in accordance with the Conditions of the Contract.

B. Product Data:
Submit manufacturer’s product data specification sheet and related notes/commentary.

C. Shop Drawings:
Submit shop drawings showing product components and profiles, including all accessories.

D. Quality Assurance Submittals:
1. Test reports showing compliance with material characteristics and physical properties.
2. Manufacturer’s installation instructions or other installation guidelines.

E. Closeout Submittals:
Installation documents; to include type and number of Grip-Tite® Helix Piers, actual pier locations, and torque installation records (with calibration monitoring) on all piers.

1.07 QUALITY ASSURANCE

A. Installer Qualifications:
   Experienced installer knowledgeable in the area of work included in this section.

B. Pre-Installation Meeting:
   Conduct pre-installation meeting with applicable parties to verify project requirements and review scope-of-work.

1.08 WARRANTY

A. Project Warranty:
   Refer to conditions of the Contract.

B. Manufacturer’s Warranty:
   Refer to manufacturer’s standard warranty document executed by authorized company official.

C. Warranty Period:
   Refer to conditions of the Contract.

PART 2: PRODUCTS

2.01 SHORING and UNDRPINNING

A. Product Description:
   1. Grip-Tite® Helix Pier System for new building and equipment foundation support.
   2. Grip-Tite® Helix Pier System for remedial foundation repair, as necessary.
   3. Grip-Tite® Helix Pier System for other foundation stabilization, as necessary.

B. Manufacturer:
   Grip-Tite® Manufacturing Co., Inc.
   115 W. Jefferson Street
   P.O. Box 111
   Winterset, IA 50273-0111
   (515) 462-1313

2.02 PRODUCT SUBSTITUTIONS

A. Substitutions:
   No substitutions permitted.
2.03 MANUFACTURED COMPONENTS

A. Components:
   1. Helix diameter and spacing as specified by the design engineer.
   2. 2-7/8” Steel Shaft as specified by the design engineer, and manufactured in accordance with applicable codes and standards referenced in this section.
   3. Bolts and connections as specified by the design engineer, and manufactured in accordance with applicable codes and standards referenced in this section.
   4. Steel brackets as specified by the design engineer, and manufactured in accordance with applicable codes and standards referenced in this section.

B. Source Quality:
   Verify component quality through manufacturer’s Quality Assurance submittals showing compliance with material characteristics and physical properties.

PART 3: EXECUTION

3.01 MANUFACTURER’S INSTRUCTIONS

A. Compliance:
   Comply with manufacturer’s product specifications and data.

3.02 PREPARATION

A. Subgrade:
   Grip-Tite® Helix Piers to be installed from approximate finished subgrade elevation(s).

B. Work Zone:
   Ample working room shall be provided around installation area so as to permit easy movement of material and equipment.

3.03 INSTALLATION

A. Grip-Tite® Helix Pier Installation:
   Helix Piers to be installed by a certified and/or authorized Grip-Tite installer or dealer.

B. Installation Criteria:
   1. Provide rotary-type drive equipment, electric or hydraulic powered, with forward and reverse capability. The drive equipment shall have a torque rating equal to or exceeding the maximum torque rating of the Helix Pier. A torque monitoring device or gauge shall be provided as part of the installation equipment. Upon request, calibration data shall be made available to the Architect, Engineer, Owner, or Inspector.
   2. Helix Piers shall be positioned and installed at the locations indicated on the drawings, construction documents, or as staked/flagged on-site.
3. Drive and/or installation equipment shall apply sufficient rotation and downward pressure so as to safely advance the Helix Pier. The typical rate of rotation is 5 to 20 rotations per minute (RPM). Monitor torque applied to the Helix Pier during the entire installation, and record values achieved on each pier.

4. Install Helix Piers to the minimum depth(s) specified by the design engineer or construction documents. Use shaft extensions, with appropriate couplings and approved bolts, to obtain indicated depth. The typical torque for connection bolts is 40 ft/lbs.

5. The Helix Pier shall be connected to the pile cap or grade beam as indicated by the construction drawings.

C. Tolerances:
   Any deviation in Helix Pier location or depth shall only be accepted with written approval of the Architect or Engineer.

3.04 FIELD QUALITY REQUIREMENTS

A. Site Tests:
   Sufficient Geotechnical Data, to include number and depth of soil test borings, to be provided by Architect, Engineer or Owner.

B. Inspection:
   Monitor the torque and rate of rotation applied by the drive equipment during the entire Helix Pier installation.

3.05 PROTECTION

A. Helix Piers and Existing Site Features:
   Care shall be exercised throughout the construction process so as to damage and/or disturbance to previously installed piers or existing site features/structures.

NOTE: A signed acknowledgment of this addendum must be received at the location indicated on the IFB either prior to the bid due date and hour or attached to your proposal. Signature on this addendum does not substitute for your signature on the original bid document. The original bid document must be signed.

Very truly yours,

James E. Simpson, CPPB, VCO
Director Materiel Management

Name of Firm ____________________________

Signature/Title __________________________

Date ________________________________