



ADDENDUM #1:

DATE: December 7, 2009

JOB: Cumberland Road Elementary School Classroom Addition
Architect Project No. 0913

OWNER: Cumberland County Board of Education

ARCHITECT: Gordon Johnson Architecture

The following items or modifications to the original Plans and Specifications shall be included as part of the contract work. All General Conditions, Supplemental General Conditions, or Special Conditions shall remain as originally specified unless otherwise noted herein.

Respective Bidders shall include the provisions of this Addendum in their proposal and shall make a notation in the proposal that these provisions have been included.

GENERAL

- 1) A Pre-bid meeting was held on November 23, 2009 at the CCS Operations Center at 810 Gillespie Street, where representatives of the Owner, the design team, and contractors interested in bidding the project were in attendance. They include the following attendees:

Gordon Johnson of Gordon Johnson Architecture
Paul Adams of Adams & Britt Construction
Art Hecke of Player, Inc.
Don Webb of FASCO, Inc
Robert Hart of Hywoods Construction
David Coffman of Coffman Plumbing
Buddy Henderson of Watson Electric
Ryan Locklear of Gaylor Inc.
William Smith of Smith Construction
Kate Carter of Graka Builders
Joey Penfield of Autry Grading

Charles Stein of Autry Grading
Blane Hunt of Cumberland County Schools
Wilson Lacy of Cumberland County Schools
Stephen Drake of M&E Contracting

The Architect reviewed the bidding requirements which included contractors submitting the appropriate bid forms and compliance statements with their bids. A bid, payment, and performance bond will be required for this project. All of the site work shown on the drawings and as specified should be included in the base bid. All other information discussed in the meeting that required a change to the construction documents will be noted in this addendum.

- 2) There is no specific bid bond form to be filled out for this project. Contractor's may use any appropriate bid bond form including the AIA-310 for their bid bond.

SPECIFICATIONS

- 1) Section 01020 – Allowances: The hardware allowance shall include all materials for storefront doors.
- 2) Section 04800 – Unit Masonry: There shall be no colored mortar required for this project. Contractors may use standard “orange” sand at their option.
- 3) Section 04800 – Unit Masonry: Delete all references to water proofing materials. See section 07141 for “Damp-proofing” material.
- 4) Section 07511 – Built-up Asphalt Roofing: Delete this section in it's entirety. Delete reference to alternate for built-up roof.
- 5) Section 07530 (footer noted as 07511) – Single-ply Membrane Roofing: Delete this section in it's entirety
- 6) Section 07610 – Sheet Metal Roofing: Delete this section in it's entirety

ARCHITECTURAL DRAWINGS

- 1) Sheet A2: The metal studs at all soffits similar to that shown on the typical wall sections shall be 20 gauge.
- 2) Sheet A2: The roof drain shall be cast iron and shall be provided by the roofing contractor. The roof drain leader in the wall cavity shall be cast iron. Drain lines in other areas may be schedule 40 PVC.
- 3) Sheet A2: Operable storefront windows shown in the typical wall section may be of the manufacturer's standard 2” thick aluminum material with finish to match other framing specified. Provide bug screens at all operable non-egress units.

CIVIL

Specifications:

Section 02665 – WATER SYSTEMS (Clarifications)

- 1) Sub-heading 2.3. Pipe and Tube Fittings: Added “F. All PVC pipe and fittings shall be manufactured to withstand 755 psi quick burst pressure tested in accordance with

ASTM D-1599 and withstand 500 psi for a minimum of 1000 hour tested in accordance with ASTM D-1598.”

- 2) Sub-heading 2.3. Pipe and Tube Fittings: Added “G. Ductile Iron fittings to PVC pipe shall be adequately supported on a firm trench foundation. Fittings shall be for bell and spigot pipe or plain end pipe, or as applicable.”
- 3) Sub-heading 2.4.B.2: after rubber gaskets., added “The mechanical joints shall be stuffing box type and shall conform to ANSI A21.11 for 3” pipe or larger. Install in accordance with AWWA C-600.”
- 4) Sub-heading 2.4.B.3: after Restrained Joints:, deleted “TR Flex or Lok Tyte as manufactured by U.S. Pipe, Lok-Fast or Lok-Ring as manufactured by American Pipe, Super-Lok as manufactured by Clow, Bolt-Lok or Rigid-Lok as manufactured by Griffin or approved equal,” and added “Ductile Iron in accordance with ANSI A21.53 (AWWA C-153).”
- 5) Sub-heading 2.4. Joining Materials: Added “D. All ductile iron pipe and ductile iron-cast iron fittings shall be lined with standard thickness cement mortar lining and asphaltic seal coat in accordance with ANSI A21.4 (AWWA C-104).”
- 6) Sub-heading 2.4. Joining Materials: Added “E. Ductile Iron: When deemed necessary and requested by the Engineer, each joint of pipe and each fitting shall be inspected by an independent domestic testing laboratory, approved by the Engineer, and certification shall be supplied to the Engineer by them that all pipe and fittings meet project specifications. In addition, the Contractor shall furnish to the Engineer a 6” test section from each lot of water pipe as per AWWA Specification ASA 21.4 to be used for additional test of the pipe lining by the Owner. Satisfactory results of this test must be obtained before acceptance of the pipe.”
- 7) Sub-heading 2.5.B. Valves: Added “F. All valves shall be tested for leakage and distortion in strict accordance with the latest revision of AWWA Specification C-500. All valves shall be manufactured in strict accordance with the latest specifications of the American Water Works Association (AWWA). Certification shall be furnished to the Engineer by the manufacturer that all valves meet project specifications.”
- 8) Sub-heading 2.5.C: after Valve Boxes:, deleted “Adjustable screw type class 35 gray Cast-iron box. Manufactured in accordance with ASTM A48. All castings must be domestically cast and so indicated by the manufacturers name and “USA” cast into all sections of the valve box. All castings must meet or exceed AASHTO H-20 load rating,” and added “C. Valve Boxes: Shall be “slip-type” made of close-grained, gray cast iron metal painted before being shipped with one coat of first quality protective asphaltum paint with a minimum thickness of 3/16”. Construction shall be in three pieces as follows: The lower of base pieces, which shall be beveled at the bottom to fit around the stuffing-box gland and rest on the valve bonnet or gear disc, as the case may be; the upper part which shall be flanged on the lower end, and of such size as to

telescope over the lower part, the upper end being constructed in the form of a socket to receive the cap or cover; and the cover or cap shall have cast on the upper surface, in raised letters, the word "WATER". Valve box shall have a "hole drilled in the upper part to accommodate ¼" x 1-1/2" Galvanized Bolt for securing tracer wire. Valve box protector rings shall be installed to protect valve boxes located outside pavements. The concrete shall be a minimum of 2500 psi, reinforced with two #3 reinforcing bars, and have an outer diameter of 24 inches. The top of the protector ring shall be set approximately ½ inch above grade. All castings must meet or exceed AASHTO H-20 load rating. All valve boxes shall be equal in quality and workmanship to the above mention manufacturers or approved equal."

- 9) Sub-heading 2.5.D.1: after pressure of, deleted "150 psi" and added "200 psi."
- 10) Sub-heading 2.6.E: after rod coupling., added "Interior of the hydrant shoe shall be coated with a 4-mil thickness FDA approved epoxy coating. Paint shall conform to the requirements of Federal Spec. TT-V-51 or Military Spec. MIL-C450 or equal. The prime coat from the ground up shall conform to Federal Spec. TT-P-86 (Type IV), Federal Spec. TT-P-636 or equal."
- 11) Sub-heading 2.6. Fire Hydrants: Added "G. All hydrants shall be able to deliver 1000 gallons per minute with a friction loss of not more than 5 pounds per square inch total head loss through the hydrant."
- 12) Sub-heading 2.6. Fire Hydrants: Added "H. Hydrants shall be suitable for working pressure of 150 psi and test pressure of twice the working pressure."
- 13) Sub-heading 2.6. Fire Hydrants: Added "I. All painting shall be done in strict accordance with the paint manufacturer's recommendations and shall be satisfactory to the Engineer."
- 14) Sub-heading 2.6. Fire Hydrants: Added "J. Schedule of colors and coating requirements are as follows: Acceptable dry mil thickness will be 4-6 for each coat. Bonnet of hydrant shall be Acrylic Enamel, Dark Green paint or approved equal. Fire hydrant barrel, caps, chain and other exterior surfaces shall be Quick Drying Acrylic Enamel Yellow Paint or approved equal."
- 15) Sub-heading 3.7.C: after according to, deleted "AWWA C600" and added "ANSI/AWWA C-110/A21.10."
- 16) Sub-heading 3.7.I: Deleted "Where conditions are, in the opinion of the Inspector, unsuitable for laying pipe because of weather or trench conditions, the contractor shall be required to cease work until permission is given by the Inspector for work to commence again providing such conditions have been corrected," and added "Pipe, tubing and fittings shall be homogeneous throughout, and free of visible cracks, holes, foreign inclusions, blisters, dents, or other injurious defects. The pipe, tubing,

and fittings shall be as uniform as commercially practicable in color, opacity, density, and other physical properties.”

- 17) Sub-heading 3.7. Piping Installation: Added “J. A minimum of 4 feet of cover is required without excessive displacement or misalignment for water mains.”
- 18) Sub-heading 3.7. Piping Installation: Added “K. All C-900 pipe shall be installed and embedded in strict accordance with ASTM D-2321.”
- 19) Sub-heading 3.7. Piping Installation: Added “L. Where conditions are, in the opinion of the Regulatory Agency Inspector/Engineer, unsuitable for laying pipe because of weather or trench conditions, the contractor shall be required to cease work until permission is given by the Regulatory Agency Inspector/Engineer for work to commence again providing such conditions have been corrected.”
- 20) Sub-heading 3.9.C: Deleted “Bronze Corporation Stops. Comply with manufacturer's installation instructions,” and added “Valves shall be set and jointed to pipe in the manner heretofore specified for cleaning, laying and joining pipe. Stuffing boxes shall be tightened and the valve shall be fully opened and fully closed to insure that all parts are in working condition. A valve box or masonry pit shall be provided for every valve. The valve box shall be centered and plumb over the wrench nut of the valve. It shall not transmit shock or stress to the valve and shall follow manufacturer's installation instructions.”
- 21) Sub-heading 3.9.D: Deleted “When a tapping sleeve and valve are being used, the valve, sleeve and machine assembly shall be air tested to hold at 150 psi for a five-minute duration in presence of the inspector prior to drilling or tapping the main. All tap coupons shall be given to the inspector. The valve shall be in the closed position during the testing,” and added “Earth fill shall be carefully tamped around each valve box to a distance of 4 feet on all sides or to undisturbed soil.”
- 22) Sub-heading 3.9. Valve Installation: Added “E. All dead ends on new mains shall have 2” Blow-off assembly installed as indicated on the drawings.”
- 23) Sub-heading 3.13.F: after shall be, deleted “dechlorinated using methods acceptable to the Public Works Department,” and added “with fresh water from an approved water source until the chlorine solution is dispelled. During flushing period, each fire hydrant on the line shall be opened and closed several times.”
- 24) Sub-heading 3.13. Valve Installation: Added “J. The contractor shall take all necessary measures to prevent downstream erosion caused by flusing lines. All erosion/damages shall be repaired at no additional expense to the owner.”

PLUMBING, MECHANICAL, & ELECTRICAL

MECHANICAL:

- 1) Electric heat for the split system heat pump shall be in three stages.

ELECTRICAL:

- 1) All labor and materials related to the fire alarm system shall be by Simplex.
- 2) The Contractor shall coordinate all labor and materials related to the electrical service with Mr. Jim Cline of PWC. Mr. Cline can be reached at 910-263-4750. This coordination shall be considered mandatory.

PLUMBING

- 1) Drawing Sheet P1: Delete 4" sanitary lateral passing under Office / Testing (Room 106).
- 2) Drawing Sheet P1: Main sewer pipe shall be 4" in lieu of the indicated 6"
- 3) Drawing Sheet P1: Provide clean-out where sewer leaves the building per NCSBC
- 4) Drawing Sheet PE1: Route main sewer piping as shown on drawing sheet C5.1

End of Addendum #1