

DOCUMENT 00913

ADDENDA

ADDENDUM NUMBER 4

DATE: September 24, 2007

PROJECT: New Psalmist Baptist Church

PROJECT NUMBER: 8919-04

OWNER: New Psalmist Baptist Church

ARCHITECT: HCO, Inc.

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated July 20, 2007, Addendum Number 4 issued September 24, 2007 with amendments and additions noted below.

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of 2 pages and the following Drawings and Specifications:

15290	Ductwork Insulation	9/24/07
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CHANGES TO THE PROJECT MANUAL

DOCUMENT 15290 – DUCTWORK INSULATION

1. Reissued as part of this document.

CHANGES TO DRAWINGS

DRAWING A1.11

1. Revise window designation W15 to W20.

DRAWING A1.15

1. Revise window designation W16, W17, W18 to W21, W22, W23.

DRAWING A6.1

1. Dressing room dividers and toilet partitions shall be metal partitions as specified in Section 10160.

DRAWING A8.1

1. Door type "F" shall be single pane lite.
2. Door type "M" shall be similar to door type "F" with divided lite.

DRAWING ID2.1

1. Room 0090 carpet type 2 shall be used under the seats and carpet type 6 shall be used in the aisles.

DRAWING ID2.4

1. Entire step shall be carpet covered including top, front and sides.

DRAWING M1.1-M1.10

1. The branch run out is the size of the diffuser or register connection.

DRAWING M4.1

1. General Notes 6: All supply and return duct serving sanctuary, balcony, chancel and choir shall have 1" thick integral acoustical lining.

END OF DOCUMENT

SECTION 15290

DUCTWORK INSULATION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SYSTEM DESCRIPTION

- A. Responsibility: This Contractor shall furnish all labor, equipment, accessories, and materials, and perform all operations necessary for the installation of all insulation for the air conditioning and duct systems, as described in the insulation section of this Specification.
- B. Net Free Area: Duct sizes shown on the Drawing, if applicable, are net free area required, size of sheet metal ducts shall increase to compensate for internal insulation.

1.3 INSULATION TYPES

- A. Outside Air Ducts: All new outside air shall have external duct insulation.
- B. Return air duct in attic, cold space, or non-plenum ceilings shall be insulated.
- C. Supply Ducts: All supply ducts shall have external duct insulation or supply air ductwork may be internally lined.
- D. All supply and return ducts for Sanctuary RTUS (7) and Gymnasium RTUS (2) shall be internally lined.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS – INSULATION

- A. Knauf
- B. Manville
- C. Certainteed

2.2 MATERIALS

- A. Type A: Blanket glass fiber insulation shall be minimum 1-1/2" thickness, thermal conductivity of 0.26 at 75°F differential; vapor barrier shall be combination aluminum foil reinforced with glass fiber yarn mesh and laminated to 40 lb flame resistant Kraft paper having 2" tab.
- B. Type B: Rigid board glass fiber insulation shall be minimum 1-1/2" thickness; minimum

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density of 4.25 lb/ft; thermal conductivity of 0.23 at 75°F differential; vapor barrier shall be a combination 0.001” thick aluminum foil reinforced with glass fiber yarn mesh and laminated to 40lb flame resistant Kraft paper having 2” tab.

2.3 JACKETS

- A. Aluminum Jackets: ASTM B209; 0.020 inch thick; smooth finish.

2.4 ACCESSORIES

- A. Metal Jacket Bands: 3/8 inch wide; 0.015 inch thick aluminum.
- B. Finishing Cement: ASTM C449.
- C. Adhesives: Waterproof fire-retardant type.
- D. Exterior Applications:
 - 1. Aluminum Jackets: ASTM B209; 0.020 inch thick, smooth finish.
 - 2. Aluminum Metal Jacket Bands: 3/8 inch wide, 0.015 inch thick aluminum.
- E. Lagging Adhesive: Fire resistive to ASTM E84.
- F. Impale Anchors: Galvanized steel, 12 gage, self-adhesive pad.
- G. Joint Tape: Kraft tape, 3” wide foil reinforced.
- H. Tie Wire: Annealed steel, 16 gage.

PART 3 EXECUTION

3.1 PREPARATION

- A. Install materials after ductwork has been tested and approved.
- B. Clean surfaces for adhesives.

3.2 INSTALLATION

- A. Install materials in accordance with manufacturer’s instructions.
- B. Provide insulation with vapor barrier.
- C. Exterior insulation (type A or type B) application:
 - 1. Secure insulation with wires and seal aluminum jacket joints water tight.
 - 2. Install without sag on underside of ductwork. Use adhesive or mechanical fasteners where necessary to prevent sagging. Seal vapor barrier penetrations by

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mechanical fasteners with vapor barrier adhesive. Stop and point insulation around access doors and damper operators to allow operation without disturbing wrapping.

3.3 SCHEDULE

Ductwork	Insulation	
	Type	Thickness (in.)
Plenums OA Ducts	B	1-1/2
Supply AMD Ducts (Concealed)*	A	1-1/2
Supply Ducts (Exposed)	B	1-1/2
Return and Relief Ducts	B	1-1/2
Internal Acoustic Lining		
Internal Lining in Supply Ducts		
Return and Relief Ducts (Concealed)*	A	1-1/2
Outside Air Intake Ducts (Concealed)*	A	1-1/2
Grease Hood Exhaust Ductwork		4**

* Concealed means "not visible" by construction. Accessible lay-in ceilings and ductwork in return air plenums are "concealed"

** Provide 2 hour 3-M fire wrap.

END OF SECTION

DUCTWORK INSULATION

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