

**ADDENDUM**

Bid Addendum #2

PROJECT: Johnston County Public Schools  
Cleveland Elementary School HVAC Renovation

CPL PROJECT NO.: R23.00325.00

DATE: March 25, 2025

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Include this Addendum as part of the Contract Documents. It supplements portions of the original specifications and drawings, the extent of which shall remain, except as revised herein:

**CONTRACTOR BID QUESTIONS:**

- 1. Is the contractor responsible for providing vibration isolation for the air handling units?**

Answer: Yes.

- 2. Do we need to reorder a new bid bond with updated date?**

Answer: Yes

- 3. We are assuming JCPS will move any furniture needed for access to complete the work?**

Answer: Yes

- 4. Will everything be cleaned off of the walls (pictures, posters, etc)?**

Answer: Yes

- 5. Can we use press copper off of the mains to the mechanical rooms?**

Answer: This is ok for anything 2 inches or less.

- 6. Can you provide the loop volumes at each school for water treatment?**

Answer: Hot water loop = 2500 gal; chilled water loop = 4000 gal

- 7. Can Victaulic pipe be used instead of welded?**

Answer: No unless it's being used underground, then it needs to have fused joints.

- 8. Will there be available storage on site for stored materials, ie for storage of equipment and materials in connex containers, etc.?**

Answer: There will be space on site for storage of equipment etc, as long as it is blocked off from student access by temporary fencing.

**TO THE SPECIFICATIONS:****SECTION 095100 – ACOUSTICAL CEILINGS**

- Revised type 1 ACT from Armstrong 1910 to Armstrong 1728

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Cleveland Elementary School – HVAC Renovation  
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**TO THE DRAWINGS:**

**SHEET H900 – SCHEDULES**

- Disregard any reference to an Appendix One regarding pre-purchase of equipment as it is covered on H900.

**ATTACHMENTS:**

**Specification Sections:** 095100 Acoustical Ceilings

**Drawing Sheets:** NA

**End of Bid Addendum 2**

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**SECTION 095100  
ACOUSTICAL CEILINGS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Suspended metal grid ceiling system.
- B. Acoustical units.

**1.02 REFERENCE STANDARDS**

- A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- B. ASTM C635/C635M - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2017.
- C. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels; 2013.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023a.
- E. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions; 2022.
- F. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2023.

**1.03 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on suspension system components and acoustical units.
- C. Samples: Submit two samples 6 by 6 inches in size illustrating material and finish of acoustical units.
- D. Samples: Submit two samples each, 6 inches long, of suspension system main runner, cross runner, and perimeter molding.
- E. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

**1.04 QUALITY ASSURANCE**

- A. Conform to CISC requirements.
- B. Manufacturer: Company specializing in manufacturing products specified in this section with minimum five years of documented experience.
- C. Installer: Company specializing in performing work of this section with minimum five years of documented experience.

**1.05 FIELD CONDITIONS**

- A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

**1.06 EXTRA MATERIALS**

- A. Furnish 100 sq. ft. of extra panels of each type and size of acoustical panel to Owner.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Acoustic Tiles/Panels:
  - 1. Armstrong World Industries, Inc; \_\_\_\_: [www.armstrongceilings.com/#sle](http://www.armstrongceilings.com/#sle).
  - 2. Certainteed Architectural; \_\_\_\_: [www.certainteed.com/ceilings-and-walls/#sle](http://www.certainteed.com/ceilings-and-walls/#sle).

3. USG Corporation; \_\_\_\_: [www.usg.com/ceilings/#sle](http://www.usg.com/ceilings/#sle).
4. Substitutions: See Section 016000 - Product Requirements.

## **2.02 PERFORMANCE REQUIREMENTS**

- A. Suspension System: Rigidly secure acoustic ceiling system including integral mechanical and electrical components with maximum deflection of 1:360.
- B. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category D, E, or F and complying with the following:

## **2.03 ACOUSTICAL UNITS**

- A. Acoustical Panels, Type 1: Armstrong, 1728A, with the following characteristics:
  1. Application(s): Existing Acoustic Ceiling Panels, in case of damage during construction, this spec section covers replacement tiles.
  2. Classification: Type A, Form A1.2, Pattern D, Fire Class A.
  3. Size: 24 by 24 inches.
  4. Thickness: 5/8 inch.
  5. Composition: Mineral Fiber.
  6. Light Reflectance: 0.82 percent, determined in accordance with ASTM E1264.
  7. NRC: 0.70, determined in accordance with ASTM E1264.
  8. Ceiling Attenuation Class (CAC): 35, determined in accordance with ASTM E1264.
  9. Panel Edge: Square.
  10. Surface Color: White.
  11. Surface Finish: Textured.
  12. Suspension System: Exposed grid.
- B. Acoustical Panels, Type 2: Armstrong, Health Zone Ultima (1935), with the following characteristics:
  1. Classification: ASTM E1264 Type IV, Form 2, Pattern E, Fire Class A.
  2. Size: 24 by 24 inches.
  3. Thickness: 3/4 inch.
  4. Composition: Mineral Fiber.
  5. Light Reflectance: 0.86 percent, determined in accordance with ASTM E1264.
  6. NRC Range: 0.70, determined in accordance with ASTM E1264.
  7. Ceiling Attenuation Class (CAC): 35, determined in accordance with ASTM E1264.
  8. Panel Edge: Square.
  9. Surface Color: White.
  10. Surface Finish: Light Texture
  11. Suspension System: Exposed grid.

## **2.04 SUSPENSION SYSTEM(S)**

- A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.
- B. Exposed Suspension System, Type 1:
  1. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
  2. Basis of Design:
    - a. Manufacturer to be same as manufacturer of ceiling panel to be installed.
  3. Grid Materials: Commercial quality cold rolled steel with galvanized coating.
  4. Profile: Tee; 15/16 inch face width.
  5. Finish: Baked enamel.
  6. Color: White.

7. Accessories: Stabilizer bars, clips, splices, and perimeter molderings required for suspended grid system.
8. Support Channels and Hangers: Primed steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
9. Perimeter Wall Angles:
  - a. 7/8 inch.

## **2.05 ACCESSORIES**

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
- B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.
- C. Perimeter Moldings: Same metal and finish as grid.
- D. Touch-up Paint: Type and color to match acoustical and grid units.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.

### **3.02 PREPARATION**

- A. Install after major above-ceiling work is complete.
- B. Coordinate the location of hangers with other work.

### **3.03 INSTALLATION - SUSPENSION SYSTEM**

- A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- C. Locate system on room axis according to reflected plan.
- D. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
  1. Use longest practical lengths.
- E. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- F. Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch clearance between grid ends and wall.
- G. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- H. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- I. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- J. Do not eccentrically load system or induce rotation of runners.

### **3.04 INSTALLATION - ACOUSTICAL UNITS**

- A. Install acoustical units in accordance with manufacturer's instructions.

- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- E. Cutting Acoustical Units:
  - 1. Make field cut edges of same profile as factory edges.

**3.05 TOLERANCES**

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

**3.06 CLEANING**

- A. See Section 017000 - Execution and Closeout Requirements for additional requirements.
- B. Protect installed work from damage and marring of finishes. Remove and replace components that become damaged.
- C. Clean surfaces.

**END OF SECTION 095100**