ADDENDUM #4
DATE: DECEMBER 12, 2017

TO CONTRACT DOCUMENTS ENTITLED:

CP170621 – SCHOOL OF MUSIC NEW BUILDING
CP172801 - GENERAL SITE: SCHOOL OF MUSIC EXTENDED UTILITIES

ADVERTISEMENT DATE: November 9, 2017

PREPARED FOR: THE CURATORS OF THE UNIVERSITY OF MISSOURI

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Drawings and Specifications for the above noted project 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:

SPECIFICATION CHANGES:

CHANGES TO VOLUME 1

1. Special Conditions Division 17 MODIFICATION TO INFORMATION FOR BIDDERS: BIDDERS STATEMENT OF QUALIFICATIONS” Remove requirement for Mechanical Contractor to carry a PP Stamp. REVISE subsection a. (1) (a) (iv) which reads “Mechanical Contractor must have certified welders and submit welding certificates as defined in specifications.”

CHANGES TO VOLUME 2.1:

2. SECTION 096400 – WOOD FLOORING
   a. Revised paragraph 1.2.A.1 to read “Field-finished wood flooring” in lieu of “Factory-finished wood flooring”.
   b. Revised paragraph 1.8.C to read “Install wood flooring after other finishing operations, including painting, have been completed.” In lieu of “Install factory-finished wood flooring after other finishing operations, including painting, have been completed.”

CHANGES TO VOLUME 2.2:

3. SECTION 233113 – METAL DUCTS
   a. REVISE PARAGRAPH 2.4 DUCT LINER” to eliminate requirement for inner perforated wall for lined ductwork (deleting lines C. 9.) as outlined below:

A. Flexible Elastomeric Duct Liner: Preformed, cellular, closed-cell, sheet materials complying with ASTM C 534, Type II, Grade 1; and with NFPA 90A or NFPA 90B.
1. Acceptable Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. Aeroflex USA Inc.
   b. Armacell LLC.
   c. NOMACO Insulation.

2. Surface-Burning Characteristics: Maximum flame-spread index of 25 and maximum smoke-developed index of 50 when tested according to UL 723; certified by an NRTL.

3. Liner Adhesive: As recommended by insulation manufacturer and complying with NFPA 90A or NFPA 90B.
   a. For indoor applications, use adhesive that has a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

E. Insulation Pins and Washers:
   1. Cupped-Head, Capacitor-Discharge-Weld Pins: Copper- or zinc-coated steel pin, fully annealed for capacitor-discharge welding, 0.106-inch-diameter Shank, length to suit depth of insulation indicated with integral 1-1/2-inch galvanized carbon-steel washer.
   2. Insulation-Retaining Washers: Self-locking washers formed from 0.016-inch-thick galvanized steel; with beveled edge sized as required to hold insulation securely in place but not less than 1-1/2 inches in diameter.

F. Shop Application of Duct Liner: Comply with SMACNA’s "HVAC Duct Construction Standards - Metal and Flexible", Figure 2-19, "Flexible Duct Liner Installation".
   1. Adhere a single layer of indicated thickness of duct liner with at least 90 percent adhesive coverage at liner contact surface area. Attaining indicated thickness with multiple layers of duct liner is prohibited.
   2. Apply adhesive to transverse edges of liner facing upstream that do not receive metal nosing.
   3. Butt transverse joints without gaps, and coat joint with adhesive.
   4. Fold and compress liner in corners of rectangular ducts or cut and fit to ensure butted-edge overlapping.
   5. Do not apply liner in rectangular ducts with longitudinal joints, except at corners of ducts, unless duct size and dimensions of standard liner make longitudinal joints necessary.
   6. Apply adhesive coating on longitudinal seams in ducts with air velocity of 2500 fpm.
   7. Secure liner with mechanical fasteners 4 inches from corners and at intervals not exceeding 12 inches transversely; at 3 inches from transverse joints and at intervals not exceeding 18 inches longitudinally.
   8. Secure transversely oriented liner edges facing the airstream with metal nosings that have either channel or “Z" profiles or are integrally formed from duct wall. Fabricate edge facings at the following locations:
      a. Fan discharges.
      b. Intervals of lined duct preceding unlined duct.
      c. Upstream edges of transverse joints in ducts where air velocities are higher than 2500 fpm or where indicated.
   9. Terminate ducts with buildouts attached to fire-damper sleeves, dampers, turning vane assemblies, or other devices. Fabricated buildouts (metal hat sections) or other buildout means are optional; when used, secure buildouts to duct walls with bolts, screws, rivets, or welds.

DRAWDING CHANGES:

CHANGES TO STRUCTURAL DRAWINGS

4. S001 – GENERAL NOTES
   a. General Note F.1.E – Revised column compressive strength to be 6000 psi in lieu of 5000 psi.
   b. General Note F.27 – Deleted note in its entirety and replaced with note “All reinforcing at structural plaza decks, with the exception of beam bottoms, shall be epoxy coated. This shall include all slab steel, beam top steel, and stirrups located at plaza decks. Plaza decks include the areas on Level 2 at grids A-B / 1.6-1.8 and Level 4 at grids A-B / 10-13.”
CHANGES TO MECHANICAL DRAWINGS

5. SHEETS M101, M102, M103, M104, M300, M302 - various Mechanical Plans.
   a. Revised General Note #2 to read: “IT IS THE INTENT THAT ALL SUPPLY AND RETURN
      DUCTWORK (INCLUDING TRANSFER BOOTS) IS TO BE INTERNALLY LINED WITH CLOSED CELL
      INSULATION WITH SIZING INDICATED ON PLAN AND AS SPECIFIED. EXHAUST DUCTWORK
      AND TRANSFER FAN DUCTWORK TO BE EXCLUDED”

CHANGES TO ELECTRICAL DRAWINGS

6. SHEET E502 – TELECOM NORTH SWITCH NODE BUILDING – POWER
   a. Modified plans to reflect MODIFIED SCOPE OF WORK TO ONLY PROVIDE THE FOLLOWING:
      MAIN SERVICE ENTRANCE ‘SE-T1’ BREAKER AND MDP1. Existing transfer switches to remain and be fed out
      of new breakers in MDP1. The existing UPS bypass breaker to be fed out of MDP1 as well to remove the
      double tap at the existing UPS breaker.

7. SHEET E604 – ELECTRICAL DETAILS
   a. Detail 11: Ductbank N-N(5 DUCTS): Changed description to read: “THREE (3) 4” CONDUIT AND TWO (2)
      2” CONDUIT OR SIZE AS NOTED ON RISER DIAGRAM. (RED DUCTBANK). (NO SHEET RE-ISSUED)

8. SHEET E702 – ELECTRICAL RISER DIAGRAM AND ONE-LINE DIAGRAMS TELECOM NORTH SWITCH
    NODE BUILDING
   a. Modified the Oneline diagrams and riser diagram to reflect the MODIFIED SCOPE OF WORK TO ONLY
      PROVIDE THE FOLLOWING: MAIN SERVICE ENTRANCE ‘SE-T1’ BREAKER AND MDP1. Existing
      transfer switches to remain and be fed out of new breakers in MDP1. The existing UPS bypass breaker to be fed
      out of MDP1 as well to remove the double tap at the existing UPS breaker.
   b. Modified general note 5 to read: “COORDINATE POWER OUTAGES WITH OWNER TO MINIMIZE
      DISRUPTION OF SERVICES.”

9. SHEET E703 – ELECTRICAL RISER DIAGRAM AND ONE-LINE DIAGRAMS TELECOM NORTH SWITCH
    NODE BUILDING
   a. Modified the Oneline diagrams steps 1 and 2 to reflect the MODIFIED SCOPE OF WORK TO ONLY
      PROVIDE THE FOLLOWING: MAIN SERVICE ENTRANCE ‘SE-T1’ BREAKER AND MDP1. Existing
      transfer switches to remain and be fed out of new breakers in MDP1. The existing UPS bypass breaker to be fed
      out of MDP1 as well to remove the double tap at the existing UPS breaker.
   b. Modified the notes for sequence of installation.

10. SHEET E704 – ELECTRICAL RISER DIAGRAM AND ONE-LINE DIAGRAMS TELECOM NORTH SWITCH
    NODE BUILDING
   a. Modified the Oneline diagrams steps 3, 4 and 5 and removed steps 6 and 7 to reflect the MODIFIED SCOPE OF
      WORK TO ONLY PROVIDE THE FOLLOWING: MAIN SERVICE ENTRANCE ‘SE-T1’ BREAKER AND
      MDP1. Existing transfer switches to remain and be fed out of new breakers in MDP1. The existing UPS bypass breaker to be fed
      out of MDP1 as well to remove the double tap at the existing UPS breaker.
   b. Removed notes 8, 13, 14 and 15.

END OF ADDENDUM #4